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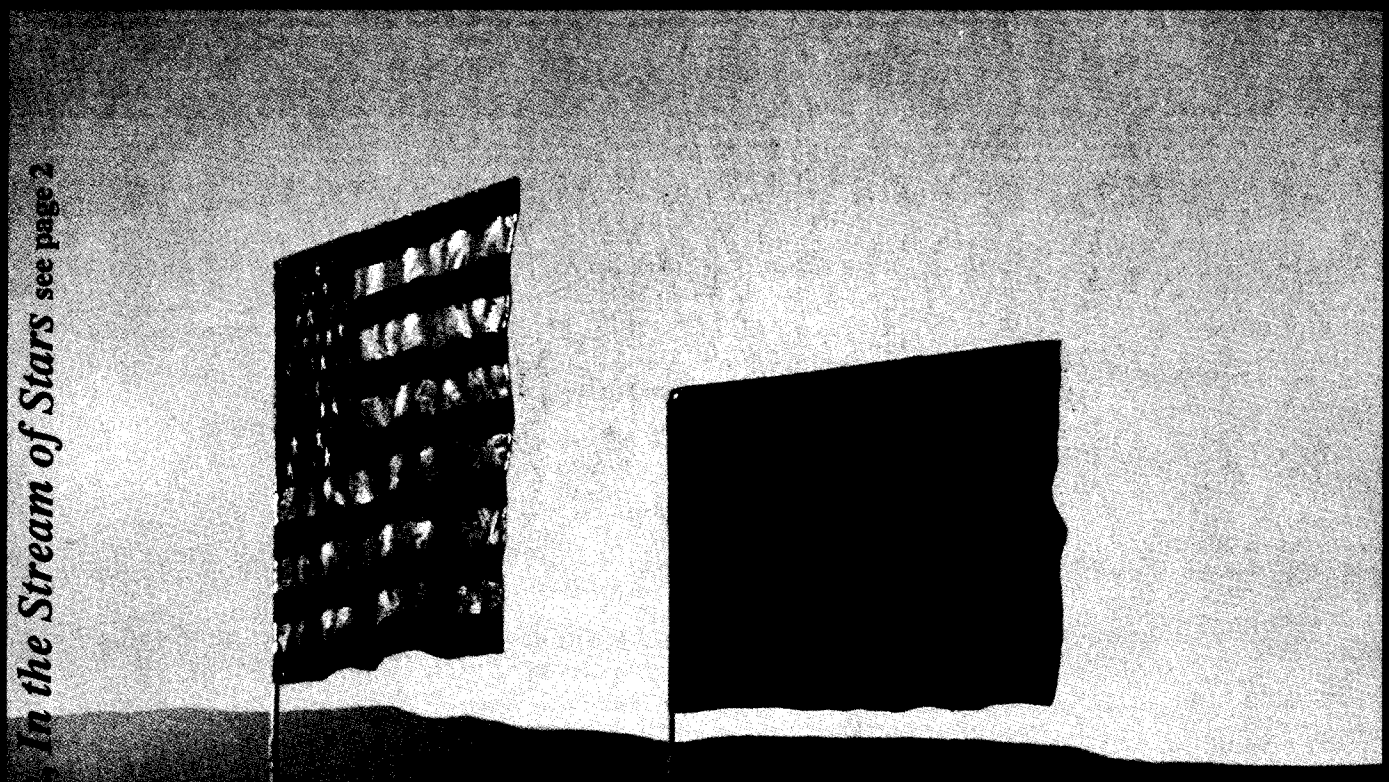
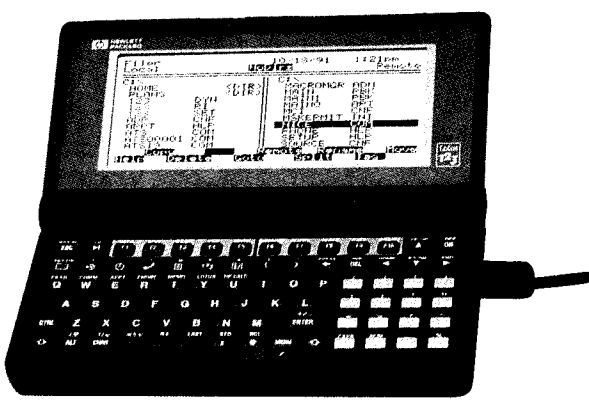


In the Stream of Stars see page 2

FREE HP 95

see page 16



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Hewlett-Packard
HP 10B 26
HP 12C 27
HP 14B 26
HP 17BII 29
HP 19BII 30
HP 20S 33
HP 21S 33
HP 27S 37
HP 28S 38
HP 32SII 34
HP 41CX 53
HP 42S 41
HP 48S/SX 42
HP 95LX 11
HP Overhead Display 22

Texas Instruments
TI BAII PLUS 26
TI Investment Analyst 26
TI Math To Go 33
TI School Calculators 32
TI OH Display Calcs 22, 32
TI-30 Stat 33
TI-68 Adv Scientific 34
TI-74 Basicalc 36
TI-81 Graphics Calc 35
TI-81 View Screen 35
TI-95 Procalc 63
TI 2100 Pocket Info 7

Atari Portfolio 10

Calculated Industries
Construction Master II 6
Digital PLAN Measure 6
Dimension Master Plus 6
Prof. Measure Master II 6

Casio
BOSS SF-7500 7
BOSS SF-8000 7
BOSS SF-9500 7
fx-7000G/7700/
8000G/8500G 35

Curtis Keyboard Calculator 64

Digitool Inchmate 6

Franklin
Language Master 8
Spelling Ace 8
Electronic Encyclopedia 2

Poqet PC 18

Psion Organiser II 9

Selectronics
Electronics Bible 6

Sharp Wizard 7200 8
Wizard 8000 8
PC-E500 36

Stokes Overhead-Display
Calculators 22, 32

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We sell them all—
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Our all-around first choice is the HP 95LX (see page 11). This little jewel is a real PC. It puts real DOS and real 1•2•3 in your pocket at a great price. It accepts standard IC cards and communicates well by cable or by modem.

For some buyers the Poqet PC's advantages (see page 18), its 80 character by 25 line display and near laptop size keyboard, will outweigh its larger size and higher price. Another Poqet plus is it accepts up to 2 IC cards at once; for example, perhaps 1 RAM and 1 ROM.

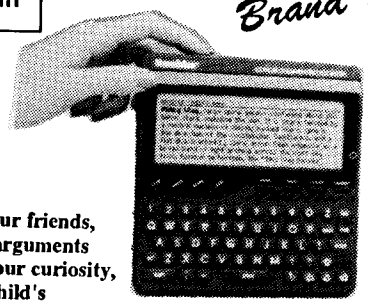
The Psion Organizer II LZ-64 (see page 9) has a strong built-in programming language for scientific, engineering and data-acquisition applications, plus an optional bar code reader for inventory control.

A price of under $300 could make the Sharp OZ-8000 (see page 8), the Atari Portfolio (see page 10) or the Casio BOSS SF-9500 (see page 7) your choice—if it fits your needs.

The Electronic Encyclopedia

Franklin

Brand New



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In the Stream of Stars

edited by
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Ray Bradbury says it all: ***"The universe waits for the arrival of our eye to see, our blood to stir, our soul to worship."***

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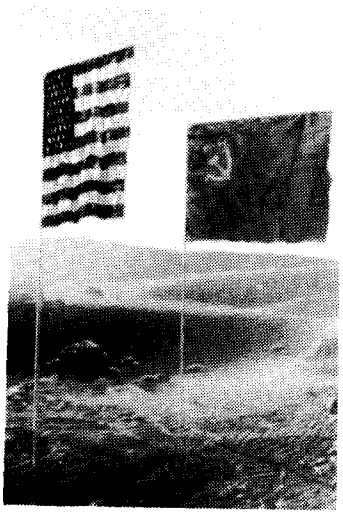

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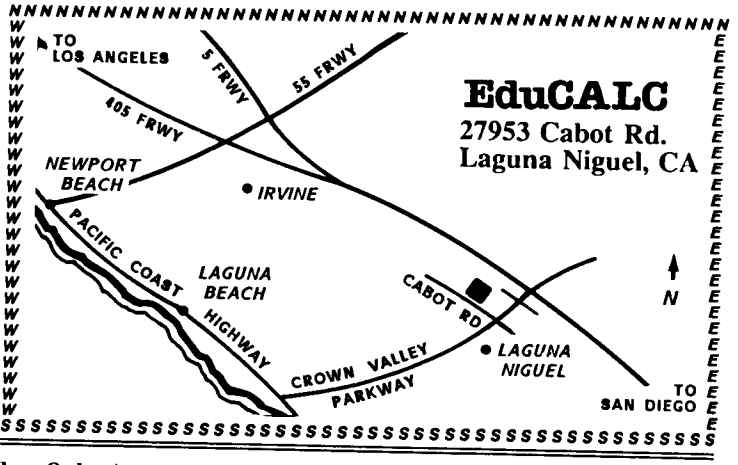

Prices effective October 13, 1991

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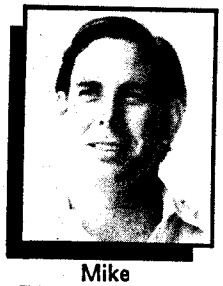
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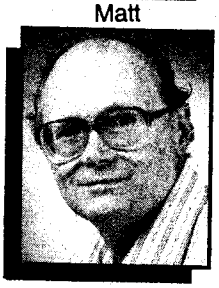
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EduCALC

27953 Cabot Road
Laguna Niguel, CA 92677

Fall, '91

Dear Reader,

What about your environment? What are we here at EduCALC doing to conserve our natural resources? Here's a brief report.

This catalog was printed on 93% recycled paper--the lightest and thinnest we can use. Our shipping boxes are about 30% recycled material, and that percentage is increasing.

We're not only trying to save trees, we'll even plant one for you--FREE! Just charge your order from EduCALC on your Mastercard; we'll send you the details right with your shipment.

We do care about <u>your</u> environment--<u>we</u> live in it, too. A physicist called the other day to alert me that his new calculator battery-pack arrived in a 4" x 8" x 8" box filled with plastic popcorn. "What a waste," he said. I agreed. Our shipping manager explained to me that UPS requires 2" padding on all sides to insure a shipment. But he has promised me he will stock 4" x 4" x 4" boxes for tiny shipments--that will save more than 75% of the packaging.

Furthermore, I'm starting an experiment to ship some small, sturdy objects and single books in envelopes, not boxes. We will lose the UPS insurance that way, so I'll have to assess the cost after we have some experience.

Here's a way you can help, too. You can help us to mail smarter. Correct an inaccurate address or eliminate duplicate, unwanted copies of our catalog by sending us the label on the back covers of our catalogs with adjustments indicated.

Thanks. Let me know how we're doing.

Sincerely,

Jim

Jim Carter
Manager

P.S. Be sure to ask for a FREE HP 95--use the coupon on page 16.

Forests for our Future

Table of Contents

Index 4
For Your Information 5
Informators™ 6
HP 95LX Palmtop 11
Poqet PC 18
Business Books & Software ... 21
Reference Aids 21
Projectable Calculators 22
Stands, Cases, Batteries 23
Business Calculators 25
School Calculators 32
Scientific Calculators 33
HP 48SX Calculator 42
HP 41 Calculator 53
HP IL Surplus Gear 54
Math Software & Bookware 56
HP Supplies 59

Index

1•2•3 at Work 20
1•2•3 for Scientists/Engnrs 19
82087/83087 Math Coprocessors 55
A Little DOS Will Do You 20
Answers You Need for HP 95 19
Approx. of Functions 21
Arithmetic Refresher 20
Astronomy on the PC 56
Astronomy, Practical, w Calc 56
Atari Portfolio 10
Atari Portfolio, Guide to 10
Batteries 22
CALC-41 55
Calcuator Handbook 32
Calculus, Infinite Series &
Iteration Sequences 6
Calculus and Derive Program 57
Calculus Labs using Derive 58
Calculus Refresher 20
Cambridge Dictionary
of Science & Technology 21
Cases 24
Casio
BOSS SF-7500 Diary 7
BOSS SF-8000 7
BOSS SF-9500 7
BOSS Diskware 7
fx-115D Sci/Solar Calc 33
fx-7000G/7700G/8000G/8500G Graphic 35
Graphic Sci Computers Applns Book (Casio) 35
Cassette I/F Cable (PC-E500) 36
CI Construction Master II 6
Digital PLAN Measure 6
Dimension Master Plus 6
Professional Measure Master 6
Derive 57
Derive LabManual 58
Diconix 150 Portable Printer 16, 45
Dictionary of Computing 21
Digitool Inchmate 6
Electronic Bible 6
Electronics Calc, Hndbk of 21
Financial Calculator
PC Software Library 20
Financial Formulas, 1•2•3 Users 19
Fractals on HP 28 & 48 58
Franklin Electronic Encyclopedia 2
Language Master 8
Spelling Ace 8
Great Experiments in Physics 5
HP Accessories (older calculators) 59
HP Digital Cassette Drive 53
HP IL Module 53
Hewlett-Packard Calculators:
HP 10B 26
HP 12C 27
Easy Course in Using the 12C 27
HP 12C Applications Books 28
HP 12C Made Easy 28
HP 12C Pocket Guide 28
Investment Securities Guide 28
Quick Reference Guide for 12C 27
RE Financial Analysis 28
RE Math Made Simple 28
Video Training Program 28
HP 14B 26
HP 15C Advanced Functions Handbook 35
HP 17BII 29
Easy Course using HP 17B 29
Hands-On, Intro 17BII/19BII 29
HP 17B Pocket Guide 29
Step-by-Step Books for Business 29
HP 18C Alpha Keyboard Overlay 31
HP 19BII Business Consultant II 30
Easy Course in using HP 19B 31
HP 19B Pocket Book 31
HP 19B Pocket Guide 31
Income Invest. Analysis Programs 31
Income Qualifier 31
'91 Rev to Home Buyer Qualif Manual 31
Step-by-Step Books for Business 30
HP 20S 33
HP 21S 33
HP 27S 37
Advanced Solutions using HP Solve 37
Easy Course in using HP 27S 37
Step-by-Step Solutions Books 37
HP 28S 38
Advanced Circuit Analysis 39
Advanced Graphing 39
Calculator Enhancements 39
Calculus Activities for Graphic Calcs 40
Customize your HP 28S 39
Easy Course using HP 28S 39
Engineering Applications 40
Games I 39
Insights 39
Memory Management on 28S 40
Pocket Book 39
Software Power Tools 40
Time & Date Functions 40
Precalculus Activities 40
Step-by-Step Books: 28S, 28C 40
HP 32SII 34
Tips/Programs for HP 32S 34
Step-by-Step Solutions Book 34
HP 41CV/CX 53
HP 42S 41
Advanced Circuit Analysis 41
Easy Course in Using HP 42S 41
HP 42S Quick Reference Guide 41
Program Examples & Techniques 40
Solution Books for HP 42S 41
Surveying Solutions 41
Surveyor's Alignments & Offsets 41
Slope-Staking Programs 41
Vertical Curves 41
Topography 41
HP 48S/SX 42
Accessories 44
Books 52
Peripherals 45
Software 47
HP 95LX 11
AC Adapter 15
ACEcard RAM 15
Carrying Case 16
Connectivity Pack 15
Money Manager 16
Explorer's Guide to 17
External Card Drive 15
Intellilink 15
Internal ThinCard Drive 15
ME Equation Library 17
RAM Cards 15
Serial Interface Kit (CMT) 17
Utility Pack 15
Worldport Modem 16
HP Calculator Supplies 59
HP Owner's Manuals 59
HP Printer Supplies 60
HP Plotter Supplies 61
HP Surplus Gear 54
HP ThinkJet PC Printer 45
InfraRed Printer 29, 46
In The Stream of Stars 2
Journey through Genius 5
Keyboard Calculator 64
Linear Algebra, Introduction to 55
Lotus 1•2•3 ver 2.2 19
Lotus Be Brief 19
Lotus 1•2•3 Handbook 19
Lotus Guide to 1•2•3 20
Lotus in Minutes 19
Mastering Excel on IBM PC 19
Math Explorer Calculator, Using 32
Math, Exploring, with Derive 57
Math Series, Kemeny/Kurtz 58
Mathematical,
Functions, Handbook of 56
Methods in Physics & Engineering 55
Puzzling 5
Mathematics
Beginning Technical 55
Discovering 5
for the Nonmathematician 6
Intro thru Science Applicatns 56
More Joy of 5
VNR Encyclopedia 21
Megamistakes 20
Microcomputers & Mathematics 55
Numerical Methods, Scientists/Engineers 56
Numerical Meths That usually Work 56
OH Display Calcs, Educator 22, 32
Overhead Display Calculators 22
Overhead Display Magnifier 22
Overhead Projectable Model 22, 32
PC-Interface Cable, TI 74/95 36
PC Link Interface (Casio) 7
Palmdac (for Portfolio) 10
Poqet PC 18
Portfolio/HP IL Adaptor 10
Psion Organizer II 9
Psion Organizer II, Using 9
Quantitative Systems for Business 19
Reality's Mirror 5
Reference Books:
Complete 21
Pocket 21
ROM Card (for Wizard) 7
Save These Telephone #'s 17
Schaum's Outline Series 20, 56
Serendipity 5
Sharp BASIC 36
PC-E500 36
Wizard OZ 7200 8
Wizard OZ8000 8
Stands 23
Texas Instruments Calculators
BAII PLUS 26
Investment Analyst 26
Math . . . To Go 33
School Calculators 32
30 Stat 33
68 Adv Scientific 34
74 Basicalc 36
81 Graphics Calculator 35
81 ViewScreen 22, 35
95 Procalc 63
2100 Pocket Info 7
PS-6200 Organizer 7
Technical Notes 58
Theories of Everything 5
Trade-In Programs:
HP 19B 14
HP 28S 44
HP 41CV/CX 44
Using DOS, Easy Course in 20
WordPerfect Desktop Companion 19

Journey through Genius

by William Dunham

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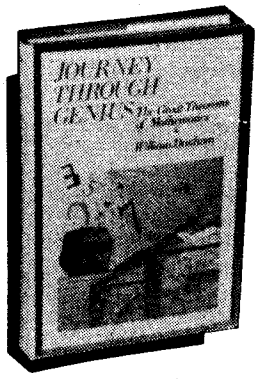

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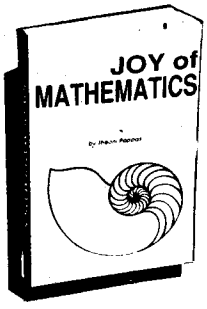

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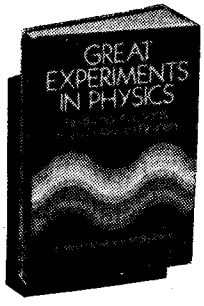

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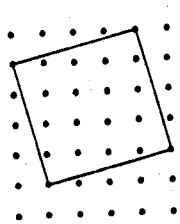
Find the exact areas of this shape *without measuring*



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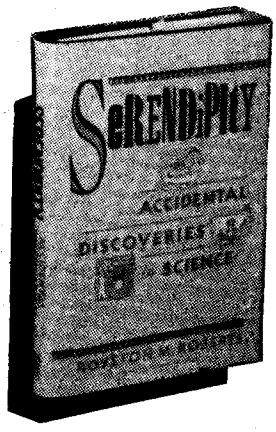

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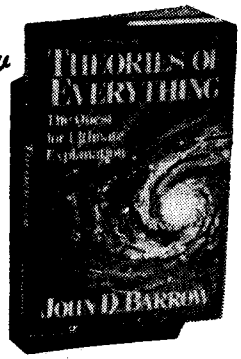

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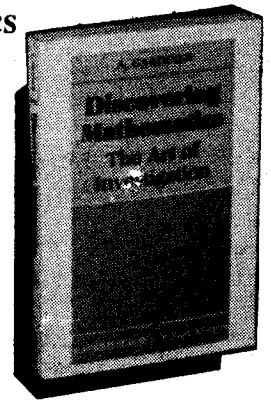

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Informators™

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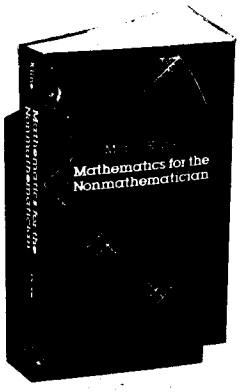

A self-study vehicle for us laymen (and even a bright high school student)—an erudite, entertaining overview that treats math as an art!

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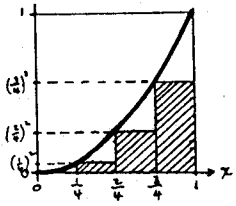
by Donald Cohen



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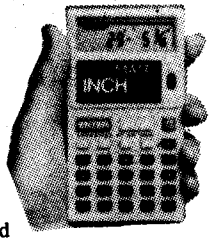
Digitool

The affordable Foot/Inch/Fraction Calculator



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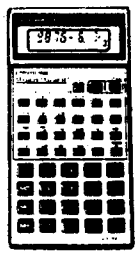
Calculated Industries



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Stock #CIPMM [Prof Measure Master II] List $90.....$79.95

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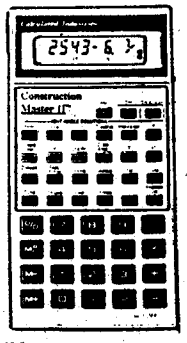
Calculated Industries



Figures with fractions! Just punch in dimensions—including fractions—and get accurate results immediately.

Accurate! Solve building problems directly in feet, inches and fractions up to 1/64". Enter dimensions right off the tape—or off plans, diagrams and prints.

Save valuable time. Solve complicated calculations such as rise, run, slope, and pitch problems in seconds! Built-in program solve right angle problems with 100% accuracy.

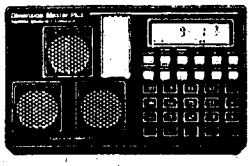
Eliminate costly errors caused by inaccurate decimal conversions. Instantly converts between all dimension formats: feet-inch-fraction, decimal, yards, and meters—and determines square and cubic dimensions

Make fast, accurate lumber estimates in board feet and dollars—for single boards, multiple pieces or the entire project. Wallet included.

Stock #CICM [Construction Master II] List $80.....$69.95

Dimension Master Plus

Ultrasonic Tapeless Measure—to 60 feet, Plus a Complete Dimensional Calculator



Accurate to 0.5% over its entire 60 foot range—it uses 3 Polaroid Ultrasonic Sensors (instead of just 1) to focus its ultra-narrow beam. This allows you to shoot down hallways or through rooms crowded with furniture. Visible pointer-spot shows exact aim.

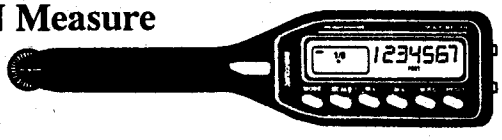
You enter dimensions through the sonic mode or from the keyboard, in feet/inch/fraction or in metric. Then you can easily find square or cubic measurements, or convert into different formats—feet, yards, meters, etc.

Manual, batteries included; 1-yr warranty.

Stock #CIDMP [Dimension Master Plus] List $100.....$93.95

Digital PLAN Measure

Calculated Industries



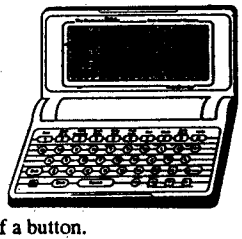
42 different scales built-in: 10 Architectural, 7 Engineering, 11 Metric, 14 Engineering/Map—plus, you can create your own custom scales, for unscaled plans or reduced prints.

Clicking sound confirms roller entry (user-selectable), balanced for left or right hand use, rolls dimensions Forward or Backward (or subtract with Back-Off Key). Rectangular Areas and Volumes automatically calculated. Push-button counter totals joists, electrical outlets, etc. Comes with User's Guide, Case, long-life Batteries; 1 yr warranty.

Stock #CISM [Digital PLAN Measure] List $130.....$119.95

The Electronic Bible

Selectronics



Now you can find any word or phrase (up to 4 words), anywhere in the entire Bible, in seconds. Full concordance capability, including word counts.

New International Version (the most widely read) of both Old and New Testaments, and you can jump to any book, chapter or verse at the touch of a button.

It's lighter (12 oz) and smaller (3.4 × 6.1 × 0.9 in.) than a paper Bible, so it fits easily in coat pocket or purse.

Easy-to-read screen has 8 lines of 40 characters each. Typewriter-style keyboard, so you can attach your own notes to Bible verses. You can even insert up to 18 bookmarks in passages you'll want to find later.

Includes Time, Date, Alarm, Calculator and complete Help functions.

Stock #EB2000 [Electronic Bible] List $300.....$259.95

Casio Digital Diaries

BOSS SF-7500:
Massive Memory—64K, holds 3000 telephone numbers

Double-size display plus all the standard diary features—200 year calendar, QWERTY keyboard for rapid date entry. Memo function can be used for important items—timetables, rates and data. Password for secret info. Fits your pocket, 5" × 2 7/8" and only 1/2" thick. Batteries included. 1 yr warranty. PC Link optional.
Stock #SF7500 [BOSS Diary] List $240.....$209.95

BOSS SF-8000 Diary
The World's finest pocket secretary—powerful and professional!

Does it all—calendar, scheduler with alarms, memos, telephone book, time & world time, business cards, secret function—**every feature of the SF-7500, plus a custom tactile-feedback keyboard.** Includes link for another BOSS; PC Link optional (see below); 7/8" thick folded.
Stock #SF8000 [BOSS Diary] List $260.....$224.95

BOSS SF-9500, The Executive

All the features of the SF-8000 plus expansion slot for cards.
Stock #SF9500 [BOSS Diary] List $320.....$272.00
Stock #ES100 [64K Memory Card] List $130.....$109.95
Stock #ES105 [128K Memory Card] List $200.....$179.95
Stock #ES600 [Dictionary/Spell/Thesaur Crd] List $130...$109.95
Stock #ES610 [Legal/Financial Spell Ckr] List $80.....$69.95
Stock #ES620 [Medical Spell Checker] List $100.....$89.95
Stock #ES630 [Spreadsheet] List $190.....$169.95
Stock #ES640 [Exp EZ/Time Mgnt/32K Card] List $130..$109.95

BOSS Diskware

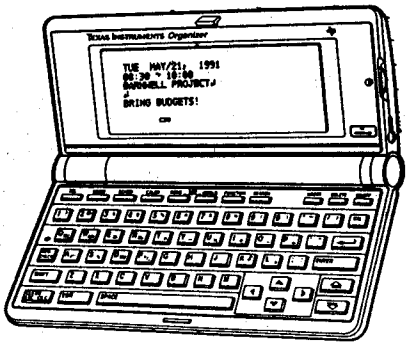
Use your PC to download these popular subjects. Requires PC Link (FA120).
Stock #FI200 [Wine Companion].....$19.95
Stock #FI210 [Lottery/Horoscope].....$19.95
Stock #FI220 [Weight Loss Plus].....$19.95
Stock #FI230 [Barrons Business & Travel Translator].....$19.95
Stock #FI240 [OAG Traveler Planner].....$19.95

Link Interface: PC and MAC

Connects your BOSS Diary to a PC/compatible or Macintosh, allows connection to printer. Lotus 1•2•3, Sidekick, etc. compatible. Includes data communication software utilities.
Stock #FA120 [PC Link, 3½" & 5¼"] List $120.....$99.95
Stock #FA130 [Macintosh Link, 3½"] List $120.....$99.95

PS-6200 Organizer

TEXAS INSTRUMENTS



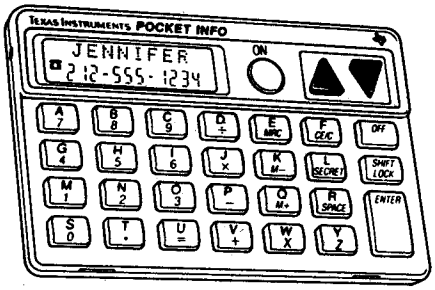
- **Calculator**
- **Memo file**
- **Metric converter**
- **Time zones**
- **Telephone directory**
- **Schedule organizer**
- **Digital alarm & reminder**
- **Big, legible display**

Everything you wanted in an informator, and the price is right. Names and phone numbers, meetings and appointments, notes, reminders; alarm alerts you to important schedule entries.
Stock #PS6200 [TI Organizer] List $105.....$69.95

TI-2100 Pocket Info

TEXAS INSTRUMENTS

Best Buy



Small yet Easy-to-Use Data Bank

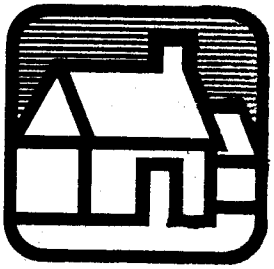
- Stores up to 55 phone numbers, credit-card numbers or important dates
- One letter per key for easy entry
- 2-line display
- 4-function calculator

Stock #TI2100 [Pocket Info] List $22.....$19.95

Calculator batteries, stands & cases—see pp 22-24

Wizard ROM Card for the Professional Realtor and Mortgage Lender

Integration Systems



Everything you need to close the deal, in one slide-in card, with its own buttons!

Financing, Prequalification, Amortization, Comparison and Refinance, all for Conventional, FHA and VHA. Buyers/Borrowers Costs, Sellers Costs, Buy vs Rent, Escrow Tracking, MIP Refund. Solves for the Unknown (amount, interest, payment or term).

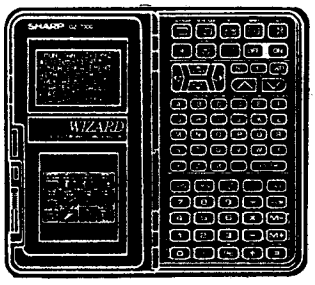
Settings enable you to customize and reprogram in minutes. Can be personalized with your name, etc. Prints itemized results (with optional printer).
Stock #2406 (Realtor/Lender Card) List $499.....$299

Recycle the already recycled—just remove the cover and this catalog is 100% recycled, 100% recyclable (as "newsprint").

Informators™

Wizard OZ-7200

SHARP.



a Pocket Secretary with Exciting Powers.

Big 8 line x 16 character LCD screen—easy to read in any light. 25K ROM.

200-year Calendar—monthly, weekly, daily, with birthdays, anniversaries, holidays—and it will beep you.

Scheduler—put in your lunch appointments, flight times, times to phone, social engagements—in any order! Wizard will sort them out, put them on your calendar, and beep you if you wish.

Memo Pad—for anything and everything you wish to remember—Wizard will find it for you later, with 3 search routines. Perform calculations with stored data if you like.

Phone/Address Book—up to 700 entries, and you can recall one by its spelling, a keyword like 'loan', or in sequence.

Clock/World Time—time, with daily and schedule alarms, plus time in 212 cities of the world.

10-digit Calculator—with separate number keypad, 3-key memory, percent and square root. Features 'paperless printer' that will scroll through 50 lines of figures for audit trail and do 'what-if' changes in any line.

Secret function—protects personal info with a password (and can void it all in 2 sec).

User Dictionary—stores frequently used words or phrases for repeated input.

Optional Printer—connects with optional adapter.

Designed to go with you—6 1/2 x 3 3/4 x 7/8 inches; 1 year warranty.

Optional Software expands your Wizard's Powers

ROM cards slide in a slot with state of the art, touch-sensitive keypad to give you huge additional programs and data. RAM cards increase your Wizard's memory capacity.

OZ701 Time/Expense Management—budget your time, prioritize your day, keep track of task-time and calculate daily or weekly totals by client, record your expenses with complete descriptions and running totals by category.

OZ702 Dictionary/Thesaurus—checks spelling of 87,000 words, showing hyphenation and alternatives—plus 45,000 entries for 500,000 words.

OZ703 Language Translator—369 phrases and 600 common words in English, French, German, Spanish, Italian, Swedish, Chinese and Japanese.

OZ705 Money-Planner—makes your Wizard into a financial calculator—loans, interest rates, depreciation and statistical analysis. Built-in HELP screens.

OZ707 Scientific Computer (BASIC)—write and run BASIC programs on your Wizard—full language includes 92 scientific and statistical functions.

OZ708 North-American City Guide—hotels, restaurants, entertainment, shops, points of interest, and more—for 23 cities including Chicago, Miami, Atlanta, San Francisco, Los Angeles, New York, even Montreal and Toronto—over 12,000 detailed entries, names, addresses, phone numbers.

OZ715 Spanish-English Dictionary—30,000 words from S&S International Dictionary. Wild searches, etc.

OZ717 Box Jockey—a game, just for fun with your Wizard.

OZ719 Organizer Tetris—the highly addictive computer game!

OZ8B01 3-D Worksheet Manager—create 1•2•3-compatible spreadsheets; plus, this card has 64K RAM memory so you can download 1•2•3 files.

OZ8B02 Organizer FAX/Modem—all features of OZ709 plus send a FAX to any standard FAX machine; for 7000/7200/8000.

OZ8C01 Organizer Bible—Old and New Testaments, with powerful search feature, *When In Need* key.

Optional PC Interface

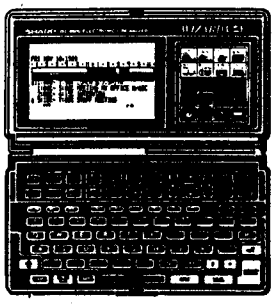
Organizer Link with Converter has all hardware and software, both 5¼" and 3½", to hook your Wizard up to your PC (at its RS232C terminal). You'll be able to enter Schedule/Tel/Memo data on the PC, then download it to your Wizard. Or upload your Wizard data to the PC—it will convert data to Sidekick or Lotus 1•2•3 format if you like.

Stock #OZ7200 [Sharp Wizard, 64K RAM] List $330.....$299.95
Stock #OZ701 (Time/Expense Management) List $120.....$99.95
Stock #OZ703 (Language Translator) List $100.....$84.95
Stock #OZ705 (Money-Planner) List $100.....$84.95
Stock #OZ707 [Scientific Computer, BASIC] List $130.....$109.95
Stock #OZ708 [North American City Guide] List $80.....$64.95
Stock #OZ715 [Spanish-English Dictionary] List $110.....$89.95
Stock #OZ717 [Box Jockey, game] List $50.....$39.95
Stock #OZ719 [Tetris, game]* List $50.....$42.95
Stock #OZ8B01 [3-D Worksheet Manager] List $200.....$169.95
Stock #OZ8B02 [FAX/Modem, Card, Modem] List $500.....$399.95
Stock #OZ8B03 [Scientific Calculator] List $130.....$109.95
Stock #OZ8C01 [Organizer Bible, Card] List $150.....$129.95
Stock #OZ780 (32K RAM Card) List $80.....$64.95
Stock #OZ781 (64K RAM Card) List $130.....$99.95
Stock #OZ782 (128K RAM Card) List $150.....$129.95**
Stock #2265 (128K RAM Card, Adv Micro*) List $200.....$114.95
Stock #OZ793 [MAC Organizer Link]* List $110.....$94.95
Stock #OZ890 [IBM Link] List $130.....$109.95
Stock #CE50P [Thermal Printer w Cassette I/O] List $170...$129.95
Stock #EA23E [Printer Adapter].....$7.95
Stock #EA1250P, Thermal Paper (5 rolls).....$1.95
Stock #CE152 (Cassette Recorder) List $100.....$79.95
Stock #CE300L (Dubbing Cable, goes between Wizards).....$24.95

*7000 Series only; not recommended for 8000 Series
**7200 and 8000 Series only

Wizard OZ-8000

The ultimate Electronic Organizer



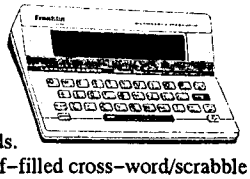
Has everything the OZ-7200 has, PLUS
- *big* 40 character by 16 line display
- *big* QWERTY-style keyboard
- *new* Outline function makes this the *World's Smallest Word Processor*

It has 64K built-in memory, new, powerful search functions for BUSINESS CARDS, and a "Paperless Printer" function to review your figures. An external DC power pack lets you save batteries with DC Adapter (not included). Modem software built in.

Stock #OZ8000 [Sharp Wizard] List $360.....$299.95
Stock #OZ899CC [Leather Wizard Carry Case].....$29.95
Stock #2421 [Power Pack] 6 AAA batts not included.....$29.95

Language Master

New Low Price! Franklin



spelling and hyphenation—including plurals and suffixes.

dictionary definitions—a big Merriam-Webster-full (83,000 words) with helpful alternative meanings, too.

thesaurus synonyms—over 400,000 suggestions pop up in seconds for 35,000 words.

puzzle power—finds all words that fit a half-filled cross-word/scrabble problem.

All the language help you've wanted—super-quick and super-easy. Just key in your best shot, and this top-of-the-line unit gives you a 4-line display of words it thinks you mean. Pick one of these and your machine will tell you what that one means and how to use it. Then push key "T" and you'll see many other words with the same and similar meanings.

It's like having an English teacher as your desk-slave. A whopping 1½ megabytes of RAM and ROM, yet this impressive 7x5x1½ inch powerhouse fits in your briefcase. 90-day warranty.

Stock #LM2000 [Language Master] List $150.....$119.95

The Spelling Ace

Franklin

80,000 Merriam-Webster words at the touch of a button, and it fits in your pocket.

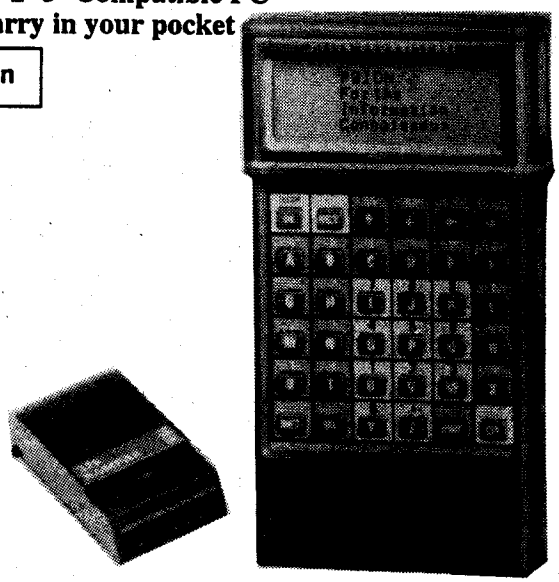
Extra large display screen, hard-key keyboard, stainless and Lexan case. Hyphenates, plays its own games, solves crosswords.

Stock #SA95 [Spelling Ace] List $40.....$29.95

Organizer II

The 1-2-3-Compatible PC you carry in your pocket

Psion



A 'dream' portable, battery powered and calculator sized (5.6 × 3 × 1.1 inches), and the price is right! There is 64K of built-in ROM program plus up to 64K RAM. It easily plugs into your desk PC so you can up or download spreadsheets, data, etc. Two solid-state drives accept up to 256K in EPROM Datapaks or software modules.

- **Diary that reminds you . . . built-in**
- **8 regular Alarm Clocks . . . built-in**
- **Indexed Filing Cabinet . . . built-in**
- **Personal Secretary . . . built-in**
- **Calculator . . . built-in**
- **Clock and Calendar . . . built-in**
- **Programmability . . . built-in**

Product Summary

ORGANIZER II-MODEL LZ: Internal 32K RAM for your personal filing, diary appointments and programs.

Big 64K ROM gives you built-in Diary, Filing, Calculator, Clock and Alarm, Week-at-a-View, Calendar, Notepad, Password protection, Data Encryption, World Times for 400 cities, International Dialing Codes, Stopwatch and Timer.

Large 80 character by 4 line screen. Accepts Comms-Link, Program Packs, AC Adapter, DataPaks, Barcode Reader, Magnetic Card Reader.

ORGANIZER II-MODEL LZ64: just like Model LZ, but with larger 64K RAM memory. With the LZ64 and two 128K Datapaks you can now have a total memory of 320K.

DATAPAKS: Perform a role similar to floppy disks on desk top computers and up to two Datapaks plug directly into the back of Organiser II. The use of Datapaks adds considerably to the power of Organiser II by freeing internal memory for diary entries and programs, and for the secure, battery independent storage and back-up of your information. A Datapak contains EPROM memory.

SOFTWARE PACKS: These contain pre-written permanently recorded software programs for specialized programs and plug in just like Datapaks.

The Formulator: a Solver, for your own problems or for its 250 preprogrammed formulas and conversions (no programming required). Built-ins include business, time value of money, math and stats, physics, electronics, chemistry, navigation.

The Finance Pack: for financial calculations, bank account and expense account management.

The Math Pack: solves analytical mathematical functions and provides statistical analysis.

The Concise Oxford Spelling Checker: look up the spelling of 24,000 words.

The Spreadsheet Pack: a full-function spreadsheet, 26 columns × 99 rows. Operates independently or, using the Comms-Link, can exchange spreadsheets with a PC. Generally compatible with Lotus 1-2-3™ and additionally accepts DIF format worksheets.

Standard Peripherals

COMMS-LINK plugs directly into top port of Organiser II and includes interface, cable, and Organiser II software.

Menu-driven software directly controls printers and provides asynchronous communications to other computers and modems which have an RS232 serial port. Allows bi-directional transfer of files, OPL programs and spreadsheets between Organiser and PC. Provides access to electronic mail and telex services. Communications can be controlled by OPL programs.

For use with IBM PC/Compatibles, a 5¼" disk is provided with extra software. For communications to other PCs any standard communications package will suffice. Has D25 plug for PC or XT.

Comes with manual. Uses one 9 volt battery (NOT included).

Provides RTS/CTS, XON/XOFF handshaking and XMODEM error-checking protocols. Baud rates 50-9600.

AC ADAPTOR that connects to Organiser's top slot for desk-top use, provides power in parallel to battery—does not charge battery—and preserves the Organiser RAM memory during connection.

BARCODE READER auto discriminates between UPC, CODE 39, 2 in 5 interleaved, EAN8 and EAN13. Includes Organiser II interface, high-level software and digital switched wand. Introduces command BAR$ into OPL language, which returns value of barcode scan.

MAGNETIC CARD READER includes cable, Organiser interface and high-level software. Introduces command SWIPE$ into OPL language, which returns as a string the data from track two of the card. Durable for over of 300,000 passes.

UV EPROM Eraser is an ultraviolet device that completely clears the contents of an EPROM Datapak, leaving it ready for reuse.

Stock #883W [Organiser II LZ, 32K RAM] List $300 ..... $269.95
Stock #883Y [Psion Portable Printer II, 9v or AC] $349.95
Stock #883C [16K Datapak] List $40 ..... $34.95
Stock #883D [32K Datapak] List $60 ..... $54.95
Stock #883E [64K Datapak] List $100 ..... $89.95
Stock #883V (Formulator) List $80 ..... $69.95
Stock #883G (Finance Pack) List 100$ $89.95
Stock #883J (Spreadsheet Pack) List $100 ..... $89.95
Stock #883K (Spelling Checker) List $100 ..... $89.95
Stock #883N [D25 to D9 adaptor plug for AT] $19.95
Stock #883P [AC Adaptor] $19.95
Stock #883R [Barcode Reader] List $250 ..... $224.95
Stock #883S [Magnetic Card Reader] List $200 ..... $179.95
Stock #9V [9v alkaline battery, uses 1] $2.80
Stock #9VN [9v NiCd battery, uses 1] $8.95
Stock #883T [Formatter] List $150 ..... $139.95
Stock #883U [32K RAMPAK] List $100 ..... $89.95
Stock #883L, Organiser II Literature ..... Free

Calculator batteries, stands & cases—see pp 22-24

Using and Programming the Psion Organizer II

by Mike Shaw

Everything you'll need if you're a beginner, plus the detailed reference material that saves time and tears for the experienced programmer.

Written with considerable help from Psion, this complete guide begins by explaining how a computer works. It then covers the built-in applications—how to keep time, use alarms, file records, run a diary or do calculations.

Most of the book, though, tells you exactly how to program the Organizer II effectively and quickly. 42 programs are completely listed, as examples and for your use as is.

Stock #2150, Using/Programming Psion, 256p sftbnd $19.95

IT'S EASY TO ORDER—use the order form at the rear of this catalog (it folds up to be its own envelope with printed address)

Informators™

The Portfolio

ATARI

What is a "Palmtop"? Imagine—as easily as reaching into your pocket for your wallet, you could be pulling out a computer instead!

Introducing the Atari Portfolio. It weighs less than a pound. Its system commands are MS-DOS compatible. And it costs a fraction of what you might expect. You don't even need a lap to hold it. At about the size of a paperback book, it fits right in the palm of your hand. You might call it a "palmtop"!

Take it on the plane with you...on a sales call...or in your car. It's so small and light, you'll forget it's there. And you'll be able to write memos, enter sales orders, schedule appointments, even remember appointments with the built-in alarms—almost everything you'd do on your office computer!

You'll have plenty of power available. With 256K ROM and 128K internal RAM and an 80C88 processor that runs at 4.92 MHz, the Portfolio™ is even faster than an original IBM PC or XT.

Lots of built-in software — even a Spreadsheet! The Portfolio™ comes complete with five important applications. You can upload and download your Lotus 1•2•3 files into the 127-column-by-255-row spreadsheet. Write memos and letters on the basic word processor, then upload them as ASCII files into Wordperfect or other word processing software on your office computer. You'll also have a phone/ address directory (with RAM cards, holds virtually unlimited numbers of addresses!) with phone autodialer. an appointment calendar and a calculator with an editable tape of calculations right at your fingertips. Menus and messages can be displayed in English, French, or German.

Runs for weeks on three AA batteries. Unlike other portables with power that lasts a few hours (about half a plane ride), the Portfolio gives you 14 to 42 hours of continuous use with three standard AA batteries (included). Typically, you won't need a new set of batteries for weeks. Now you can fly all over the globe without running out of power in the middle of your plane ride. And you'll never have to lug a heavy Ni-Cd battery with you again. You can easily change batteries without data loss.

This tiny powerhouse is a pleasure to use. Open the Portfolio and see how beautifully readable the super-twist LCD screen is—and discover the ease of using the familiar QWERTY keyboard. Optional credit-card-sized Memory Cards take the place of floppy disks for backing up data. And system commands are MS-DOS compatible—so you'll find yourself right at home with the Portfolio.

Optional Smart Parallel Interface connects Portfolio to standard parallel printers and to your PC/compatible office computer—includes file-transfer software.

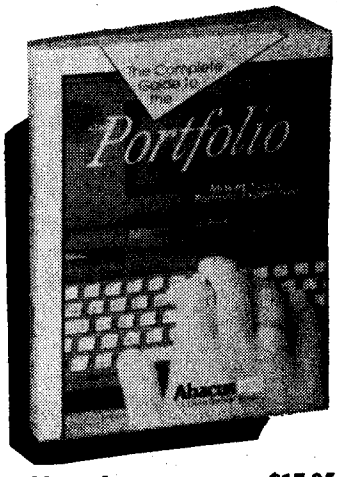
Optional Serial Interface attaches your Portfolio to a wide variety of RS-232 devices such as modems, printers, and bar-code readers.

Stock #HPC004 [Portfolio™] List $300 ..... $279.95
Stock #HPC201 [32K RAM Memory Card] List $80 ..... $68.95
Stock #HPC202 [64K RAM Memory Card] List $130 ..... $109.95
Stock #HPC203 [128K RAM Memory Card] List $200 ..... $169.95
Stock #HPC101 [Parallel Interface] List $50 ..... $42.95
Stock #HPC102 [Serial Interface] List $80 ..... $68.95
Stock #HPC401 [117v AC Adapter] List $10 ..... $9.95
Stock #AA [Alkaline Battery] uses 3 ..... ea $.89

The Complete Guide to the Atari Portfolio

by Michael Mueller

Brand New



Makes you a Portfolio expert fast!

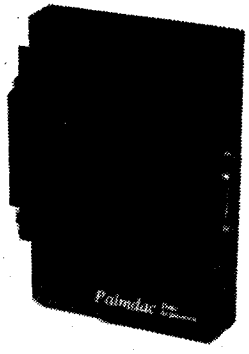
Use this two ways—either as a complete reference for rapid access to just the information you want right now—or you can work through any chapter for comprehensive study.

Everything is here, hardware and operating system plus all the built-in software programs — including setup, printing, communicating between applications and interfacing with an IBM PC.

Stock # 2516, Portfolio Guide, 194p softbound $17.95

Palmdac Data-Acquisition Peripheral System for Portfolio

Microprocessor Designs



Compact (2.75 × 4 × 1 in.), runs 8 hours on the Portfolio's batteries—12-bit ADC digitizes signals at rates to 1024 Hz. Two differential input channels with full-scale ranges you set to 25 or 250 mV, and 4 SE (or 2 DI) channels reading 2.5V full-scale. Programmable timer samples at from 1024 Hz to once a month. Two software-switchable 2.5V, 10 mA sources.

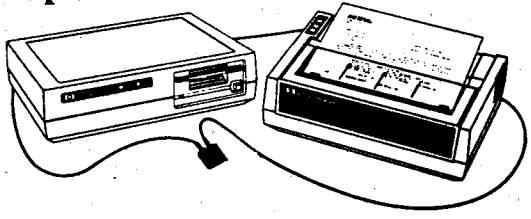
Control software comes on PC disk to download; you can keep it on a RAM card (and use cards to buffer data, too). Write applications in MS C or QuickBASIC.

Stock #2300 [Palmdac] List $395 ..... $349.95

We guarantee everything we sell. You may return it to us in new condition within 30 days for a full refund, no questions asked.

Portfolio to HPIL Interface Adapter

interloop



- Operation as an HPIL controller
- Loop use of PC storage and display systems
- Access to HPIL printers, disk drives, etc.
- Installs in expansion slot, communicates to 23 devices

New

Stock #IL170 [Portfolio/HPIL Adapter, allow 10 days] $259.95

Read our mail from Mississippi—

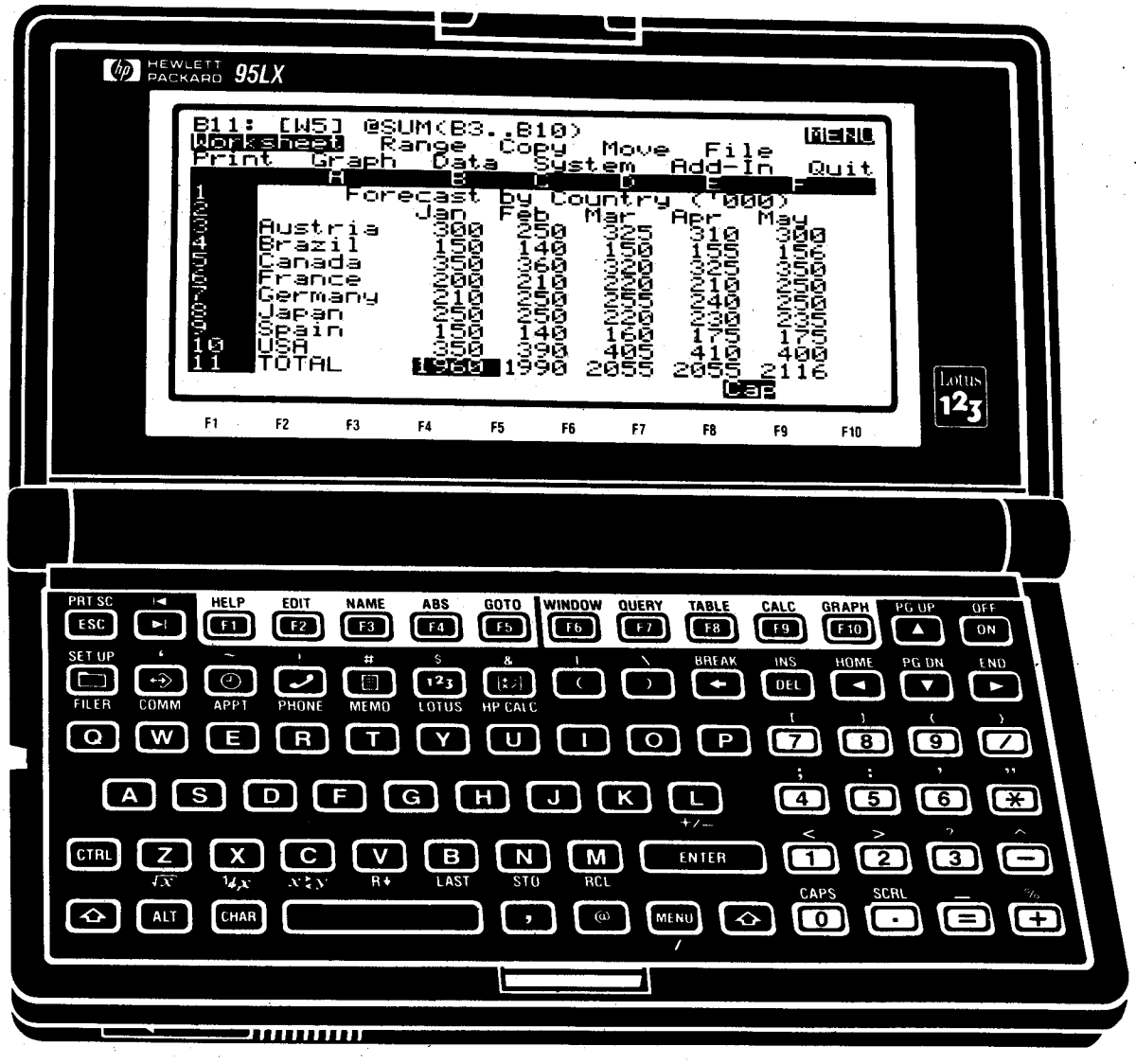
Thank you for your quick response and help. Glad to see that EduCALC is still one company who has the best interest of their customers in mind. I have repeatedly recommended your company to many friends who have purchased items from you. They also received quick and courteous service.

Ron Burnham, Biloxi

a life-size picture of the new

HP 95LX

your power tool for the '90s



turn page for description and specs ➠

HP 95LX

the 7 wonderful keys —

those extra blue keys that will turn the HP 95LX into your favorite computer at any size! at any weight! at any price!

1•2•3

Don't leave the office without it! Now you can *download* spreadsheets from the big PC to your HP 95LX. Because this is real Lotus 1•2•3.

Take that sales report, budget or investment portfolio right along with you in your pocket. *Update* as you talk. *See* the results instantly. *Zoom* them. *Show* them around. *Transfer* them back to your PC when you are in the office again.

If you need to leave Lotus, perhaps to check your appointments or to find a phone number, just press another blue key. When you're ready to use Lotus again, touch the blue 1•2•3 key and you'll be back in your spreadsheet. exactly where you left off. You can also copy part of a worksheet and move it to wherever you want it, maybe into a memo.

Here are some other things you can do with this powerful version 2.2 of Lotus:

- Use, edit, or create large worksheets—up to 256 columns and 8,192 rows of data
- Create and view 1•2•3 graphs
- Zoom in for a close-up look at a portion of a graph
- Manipulate databases using 1•2•3 data commands including Sort, Query, and Regression
- Execute macros to speed up repetitious tasks and keystroke sequences
- Link files
- Use Worksheet, Range, Copy, Move, File, and Add-in commands
- Print to a text file or printer
- Use 1•2•3 @ functions from @ABS to @Year
- Perform cash flow analysis or statistical analysis using built-in 1•2•3 templates

Note: Allways™, PrintGraph, and Translate are not included in the HP 95LX. To use them, transfer your 1•2•3 file from your HP 95LX to your IBM-compatible PC, and run them from your PC version of Lotus 1•2•3.

Sure, your HP 95LX will do the same timely chores that a Wizard or a BOSS will . . . to help you with appointments, schedules and priorities.

But the HP 95LX is itself a PC, so it has a big Appointment Book program, with all the frills of an office machine—plus the big memory to match.

You can *set your alarms* to go off, say, 15 minutes in advance. You can highlight your appointment and press F6 to get the *background information* (including a 1•2•3 spreadsheet, if that's what you need.

Set *repeating appointments* once and they'll show up as specified, weekly, monthly, or yearly.

Can't remember details from a note you saved? No problem. Enter a word or short phrase and *search* for the note in your appointment book.

What time is it in Dallas? In Geneva? In Melbourne? Access the *city list*, highlight a city, and read the *time* at the top of the screen.

Here's what you can do with your appointment book:

- See your daily schedule
- Repeat appointments on a weekly, monthly, or yearly basis
- Set alarms for appointments
- Check your daily to-do list
- Mark to-do items as completed and carry over past-due items automatically
- Attach extra information as a note to an appointment or to-do item
- Search for a word or phrase in the appointment book
- Create multiple appointment books
- Print your appointments or to-do items, for one day or a series of days, to a text file or printer
- Consult a monthly calendar
- Check the time locally or in any one of over 250 worldwide cities, including towns or locations that you have added to the city list
- Use the HP 95LX as a timer or stopwatch

Your HP 95LX will have *all the goodies* that go with a big PC Phone Book program done by Lotus, plus *its giant 512K memory capacity*. Here's what you can do with it:

- Access an alphabetical list of names and phone numbers
- Find a name and number quickly by scrolling, searching for the name directly, or searching for the first letter or letters of the name
- Keep, for each name, a card of information—such as an address, job title, birthday, or whatever you want
- Search for a word or phrase in the phone book cards
- Create a smaller phone book from an existing phone book
- Print one or more names and numbers, with or without their information cards, to a text file or printer
- Use the phone book's database capability to create additional useful lists, for example, a price list or inventory list

You won't want to type a book into your HP 95LX — that's what desk PC's and secretaries are for. But you could *edit* a book on your 95, by using its Memo Editor, which is a small word-processor. Or *store reference information*. Or *take a quick note* on the spot. Here's how:

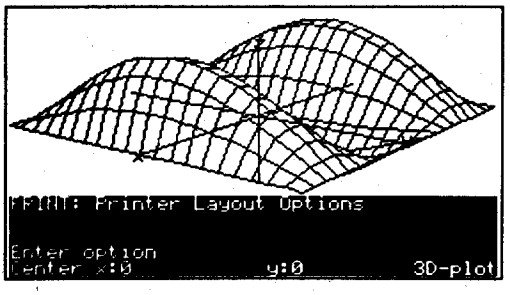
- Create a memo, note or letter
- Edit ASCII-format documents or reports transferred from your PC to the HP 95LX — the display's right margin is adjustable and can accommodate a line width up to 240 characters
- Use standard word processing features including:
  word wrap, cut and paste, copy and paste, insert and overwrite, tab and margin setting, insertion of text from another file, page break
- Search for a word or phrase in your memo or document
- Print all, or a portion, of your memo or document to a printer

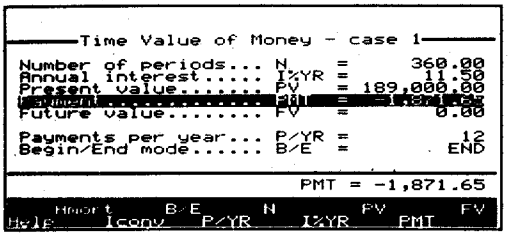
Do simple arithmetic simply — either Algebraic or RPN style — you decide.

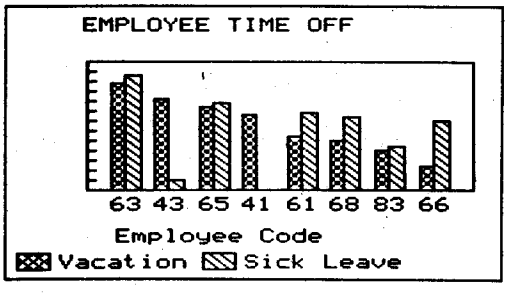
But your HP 95LX will have the latest, most sophisticated Finnancial Calculator, one that only HP could give you. *Time Value of Money* answers and *"what-if"* recalculations. *Backsolving* for any variable in your equation—and you can use this feature to compute values in worksheet cells, automatically!

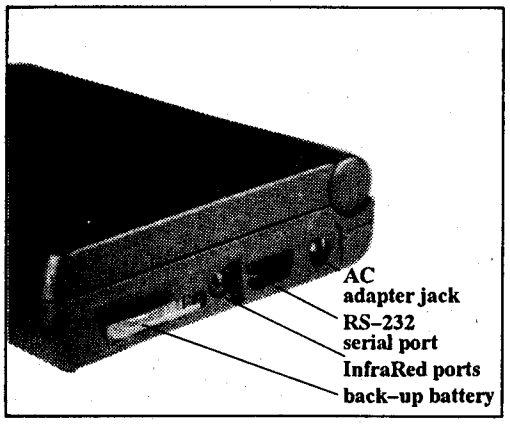
Note the *currency conversions* and the quick *plotting* and *root-finding* in this list of powerful features:

- Do arithmetic and use general math functions including percent, square root, reciprocal
- Use an automatic constant
- Store numbers directly to, or recall them from, a Lotus 1•2•3 worksheet with the STO@ and RCL@ functions
- Keep a running total of a list of up to 100 numbers, with list review and editing capability
- Perform these time-value-of-money calculations: compound interest, amortization, interest rate conversion
- Send an amortization schedule directly to a Lotus 1•2•3 worksheet
- Compute business percentages: percent change, percent of total, markup, margin
- Perform currency and other unit conversions: nine standard currencies or others of your own choosing, length, area, volume, mass
- View the elements and progress of each calculation on the large HP 95LX display; see labeled variables, the contents of 10 storage registers, or the history stack
- Use the HP Solve application to customize the calculator with often-used equations — solve for one variable in terms of the others without rewriting the equation
- Store HP Solve equations to the Solve Catalog
- Use Solve 1-2-3 to backsolve to a desired result in a Lotus 1-2-3 worksheet — calculate the value of one cell to achieve a desired value for another cell









- Plot an equation or mathematical expression, zoom in on chosen areas of the graph and calculate roots
- Use technical math functions including: trigonometric functions, polar/rectangular coordinate conversions, exponential and logarithmic functions, integer part, fractional part, and absolute value, rounding a number, random number generation, permutations, combinations, and factorials
- Choose your preferred form of data entry, either algebraic or RPN
- Print to a printer any of the following: contents of the calc line, contents of the history stack, contents of the storage registers, all data in current calculator screen, an amortization table

Stay in touch — with your electronic mail, stock markets, news, weather and sports.

Download new charts or tables from the home office. *Upload* new field data, orders, specifica-tions or instructions.

Here's what you can do with Data Communications:

- Access information networks such as your company's electronic mail system
- Access electronic information services such as CompuServe
- Save information you receive in a capture file
- Set data transmission speed to 300, 1200, 2400, 4800, 9600, or 19200 bps
- Use the 40-column HP 95LX display as a window into an 80-column screen to communicate with systems that require a full 80-column screen
- Wrap incoming data to 40 columns when communicating with a system that does not require use of all 80 columns
- Transfer files using Kermit or XMODEM protocols, or as straight ASCII text
- Emulate a VT-100, ANSI, or tty terminal
- Automate logon using a script file
- Choose among built-in configuration files, including ones to connect to CompuServe, Dow Jones News/Retrieval, or MCI Mail; or create and save your own

Note: Datacomm requires either the HP 82222A serial interface cable to connect directly to a remote computer; or the cable, a modem, and a modem adapter to connect by phone to the remote computer. Direct connection may also require an optional cable adapter. The filer, described below, includes additional file transfer capability.

The Filer is a "DOS shell", an easy-to-use labor-saver Lotus has programmed for the HP 95LX so you can simply and quickly create, move, view, copy, delete, print and generally *manage your files*.

There's also a game here, TigerFox, where you chase the fox while the tiger chases you. The complete list is:

- Create, rename, and move among directories
- View a listing of files in your directories
- View the contents of a specific file
- Copy, move, or delete one file or several files at once
- Rename a file
- Sort files by date, by extension, by size, or alphabetically by file name
- Run a program from electronic RAM disk, from a plug-in RAM card, or from ROM
- Execute MS-DOS commands available in the HP 95LX
- Transfer files between one HP 95LX and another via infrared interface
- Transfer files between an HP 95LX and an IBM-compatible PC, either through direct serial connection or via an optional modem, using the optional HP F1001A Connectivity Pack
- Simplify file management tasks, especially file transfer, using the split-screen feature; lets you see two directories at once, making it easy to copy a file from one to the other
- Print a file, set of files, or directory listing to a printer
- Play TigerFox, a chase game with 45 different mazes

Setup Utility

- Adjust display contrast, memory allocation, and beeper volume
- View battery level
- Set date and time formats
- Specify punctuation, language, keyboard, and currency settings
- Select or modify printer configuration
- Create customized user keys that let you quickly recall a string of text or automatically execute a series of keystrokes to perform a specific task
- Format a plug-in RAM card
- Personalize the HP 95LX by filling in a business card display or adding your own customized graphics image

That's what the 7 wonderful keys do, each by itself. But that's not all — *these applications fit together*. This means that you can *jump* from one to another at will, and even *take data along* with you. It means that you won't have to learn different schemes of commands for each piece of software, because these are *consistent*, as alike as Lotus programming could make them.

Look at these consistency features:

- Press a single key to access any of the 7 built-in applications
- Press a single key to switch to another application without having to close the first one
- Find your way around an application easily, guided by menu keys and soft-keys
- Access [ ] from any application by pressing [ ]
- Move information among applications by copying it to a clipboard and pasting it where you need it
- Save time by creating customer user keys to recall specific sequences of key-strokes that you use often

turn page for hardware specs →

"This handheld hybrid may change financial organization as we know it."
Portable Office

"HP's 95LX is an engineering triumph, incorporating amazing advances in miniaturization and connectivity."
BYTE

HP 95LX

the specs

HP 95LX Palmtop PC Includes
- Owner's Manual
- Quick Start Guide
- Two AA and one CR2032 batteries
- Engravable personal nameplate

Physical Specifications
- Dimensions:
  16 x 8.64 x 2.54 cm
  (6.3 x 3.4 x 1 in) closed
- 16 x 16 cm (6.3 x 6.3 in) open with height dependent on viewing angle
- Weight (with batteries): 312g (11 oz)

Memory
- Built-in ROM size:
  1 Megabyte
- Software built into ROM:
  MS-DOS 3.22
  Lotus 1•2•3 Release 2.2
  Appointment book
  Phone book
  Memo editor
  HP financial calculator
  Data communications
  Filer
- Built-in RAM size:
  512K bytes with adjustable par titioning between system RAM and electronic RAM disk
  Built-in RAM availability:
  Because the built-in software executes from ROM and uses minimal RAM, most of the RAM is available for file creation and file storage
- Expansion capability:
  Industry-standard plug-in card slot lets you increase electronic RAM disk, for file storage, or add ROM-based software applications. The card slot is accessed as drive A: and conforms to PCMCIA 1.0 and JEIDA 4.0 standards. Available RAM card sizes are 128 Kbytes (HP F1002A) and 512 Kbytes (HP F1003A)

Industry-standard PC Architecture and Central Processing Unit (CPU)
- IBM PC-XT architecture
- NEC V20H CPU (80C88-compatible) running at 5.37 MHz

Display
- Type:
  Supertwist liquid crystal
- Size:
  40 columns x 16 rows
- Graphics resolution:
  240 x 128 dots
- MDA compatible
- Character size:
  5 x 7 dots

Beeper
- Audible warning of operator error
- Alarm feature in apointment book
- Adjustable volume

Keyboard Layout
- Familiar typewriter-like QWERTY layout
- Separate numeric keypad
- 10 function keys (softkeys)
- 7 application keys providing one-key access to built-in software applications

Input/Output
- Built-in 3-wire serial interface for connection to RS-232 devices
- Built-in infrared transmitter/receiver for wireless HP 95LX to HP 95LX communication at 2400 bps with a separation distance up to 20.3 cm (8 in)
- Built-in data communication software including:
  VT-100 terminal emulation
  ANSI terminal emulation
  tty terminal emulation
  Kermit protocol
  XMODEM protocol
- Built-in printer driver sets supporting these types:
  HP LaserJet
  Epson FX-80
  IBM Proprinter
  (This lets you use a variety of printers. For example, the Kodak Diconix 150 Plus printer is compatible with Epson FX-80 and IBM Proprinter command sets.)
- Plug-in card slot
- Optional HP F1001A Connectivity Pack for file transfer between an HP 95LX and an IBM-compatible PC
- Optional modems from Touchbase Systems, Inc.

Power
- Two 1.5 v AA main batteries
- One 3 v CR2032 coin cell backup battery
- Battery life for main batteries is 1 to 2 months of typical use, depending upon type of use. For example, the HP 95LX consumes more power when performing infrared or serial communication.
- Optional ac adapter (recommended for use with the HP F1001A Connectivity Pack to conserve HP 95LX main battery life).

Operating Requirements
- Operating temperature:
  0° to 45° C (32° to 113° F)
- Storage temperature:
  -20° to 60° (-4° to 140°F)
- Data retention temperature (operating or storage):
  0° to 45° C (32° to 113° F)
- Humidity:
  90% relative humidity at 40° C (104° F) maximum

still undecided?

Let's recap the facts—this little gem has Hewlett-Packard design excellence in its logical architecture and in its calculations. It has Microsoft's MS-DOS, so it's fully PC-compatible. And it has Lotus 1•2•3 and Lotus Development's programming of its applications, so they all have similar, consistent command structures, and so you can transfer data and results back and forth between them.

- Lotus 1•2•3
- Appointment book
- Phone book
- Memo editor
- HP financial calculator
- Datacomm
- Filer
- 512Kbytes of RAM
- MS-DOS 3.22
- 2.5 times as fast as an XT

Is that reason enough to buy it now?

You can see the excellence of its HP machine design in its keyboard, its Input/Output capabilities, and its case (not to mention its robust reliability).

- Crisp 40 column x 16-row display
- Familiar QWERTY keyboard
- Separate numeric keypad
- One-key access to applications
- Serial and infrared interfaces
- Industry-standard card slot
- Protective clamshell design
- Easy-to-carry size, weight

Is that why you have decided to get yourself an HP 95LX, now? This is exactly the way you've always known computers should be. So it's no wonder that the HP 95LX will be your favorite computer, at any size, at any weight, at any price!

It's an always-with-you extension of your desk-bound computers, so anywhere, anytime, you can

- explore "what-ifs" with your spreadsheets
- track your appointments and assignments
- find important phone numbers
- calculate loan payments
- convert currencies
- check the time around the globe
- edit your letters and reports
- dial up information services

This computer is personal and exciting—your power tool for the '90s. Best of all, it weights just 11 ounces, fits into a pocket and costs only a fraction of what a laptop or desktop PC does.

More good news—if you buy your HP 95LX right now, during our Introductory Sale, you get an immediate saving, with EduCALC's deep discount price of only **$529.**

That's not all, either—you'll have EduCALC's 30-day warranty, for a no-questions credit or refund. You can try out your HP 95LX for a month, put it through its paces and make sure it is exactly what you need—there is no risk, because we want you to be delighted. *(Note: we have a lease plan for our commercial customers—call for details.)*

Stock #HP95LX [Palmtop Computer] List $699.....$529

free — your name engraved — free

During this Introductory Sale we will personalize your name or initials free on a small plate that you can neatly adhere in a countersunk space on the back of your new 95LX. Just include Stock #95CNP and we will include everything you need to get your FREE engraved name plate. You'll be limited to 16 characters and your imagination.

Stock #95CNP [HP 95LX Custom Nameplate] ..... Free

Trade In Program **Save even more—**

TRADE IN your used HP 19B or HP 19BII. Just send it to us, insured, in working order, with all its Manuals. Take CRedit on your Order—$45 CRedit for a 19B or $55 CRedit for a 19BII—and put the order and your check right in the box.

If you prefer to keep your old instrument until your new HP 95LX arrives, just send it to us later, along with its Owner's Manual and a copy of the sales receipt for your new machine—we'll send you your refund right away.

Here's how you hook up your HP 95LX to a PC, printer or modem

Use the 4.9 foot Serial Interface Cable to link the HP 95LX to your IBM-compatible PC—optional Connectivity Pack includes cable and datacomm software for the PC, plus a female 9- to 25- pin adapter (in case you need one).

Pack contains PC versions of the Appointment Book, Phone Book and Memo Editor, all programmed by Lotus specifically to take advantage of the HP 95LX's environment—plus this software will translate files from *Metro*, *Sidekick* or *PC Tools* for your 95.

You get PC versions of the HP Financial Calculator and Filer applications, too, along with *DOS-Connect*, a utility that lets you treat the HP 95LX as a disk drive while you are within other software applications on your PC.

With the Connectivity Pack you'll have symmetric environments on your HP 95LX and your PC. But users who don't want this added convenience can still do PC-to-HP 95LX file transfers by purchasing the cable alone to connect to their PC and communicate via standard datacomm protocols (for example, Kermit or XMODEM).

You can use your Serial Interface Cable to connect the HP 95LX to a printer or modem, but you may need the Serial Cable Adapter Kit as well.

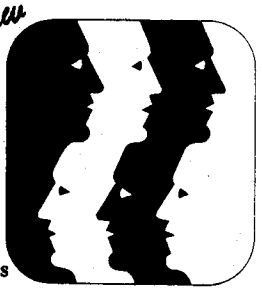
Pack includes both 5¼" and 3½" disks and a brief manual.

Stock #F1001A [Connectivity Pack] List $100 ..... $79.95
Stock #82222A [Serial Interface Cable only] List $30 ..... $29.95
Stock #82224A [Serial Cable Adapter Kit] List $15 ..... $14.95

Connect your 95 to your PC

Brand New

running applications under Windows 3.0



- IBM Current including mainframe PROFS
- Borland Sidekick 2.0 (under Windows 3.0)
- Asymetrix Toolbook and Daybook, with memos
- MS Word for Windows & AmiPro & Excel
- Paradox database (maps PHONE and MEMO fields)
- Q + E support for dBASE and SQL Server
- Windows 3.0 Clipboard • Lotus 1-2-3 for Windows

IntelliLink

Direct imports/exports to/from Windows applications at the field level with a few simple clicks of the mouse! Requires HP 95 with #82222A Serial Cable and PC running MS Windows 3.0 (IntelliLink is HP New Wave-aware).

Stock #2517 (IntelliLink 2.1, 5¼" & 3½") List $100 ..... $89.95

Plug-in RAM Cards from Hewlett-Packard

HEWLETT PACKARD

Each card has its own long-lasting battery so it can be stored or mailed without losing the data or programs you've recorded on it.

Stock #F1002A [128K RAM Card] List $200 ..... $159.95
Stock #F1003A [512K RAM Card] List $400 ..... $319.95

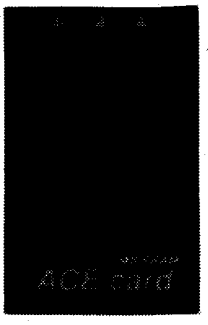
ACE card RAM-

Lo-price, Hi-capacity
512K-1M-1.5M

Available November 1991

ACE Technology

Brand New



- **JEIDA/PCMCIA specs**—fits HP 95, Poqet PC, NEC Ultralite . . .
- **Pre-Formatted**—and loaded with FREE useful software for each computer.
- **Lithium back-up battery installed**—plus a spare battery FREE when you register your purchase.
- **Fully tested**—1 year warranty.

Stock #2521 [512K RAM ACE card] $239
Stock #2522 [1M RAM ACE card] $459
Stock #2523 [1.5M RAM ACE card] $659

AC Adapter for your HP 95LX

HEWLETT PACKARD

Stock #82241A [AC Adapter, for USA] $14.95

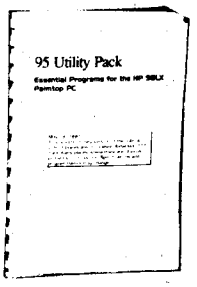
Going overseas? Take your power with you—9v 13.5 VA output for HP 95LX or for HP82240B InfraRed Printer.

Stock # 82241AB [AC Adapter for Europe, 220v 50Hz] $14.95
Stock # 82241AU [AC Adapter for the U.K., 240v 50Hz] $14.95
Stock # 82241AJ [AC Adapter for Japan, 100v 50/60Hz] $14.95
Stock # 82241AG [AC Adapter for Australia, 240v 50Hz] $14.95

95 Utility Pack

Richard Harvey

Brand New



Thirty-six small, efficient programs written in assembly language, each optimized for the 95 and its 40-column mode, to add many useful commands to DOS 3.22. Programs download from your PC.

Get accurate information about memory, battery status, contrast, speaker level, keyboard state, . . . Set computer states from the command line. Find files fast. Filter extraneous characters from files for viewing or transmitting. Display graphics. Play music. Automate graphics demos. Enhance cursor.

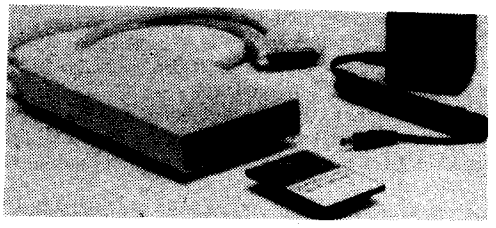
Stock #2467 (95 Utility Pack, 3½" & 5¼") List $35 ..... $27.95

Derive (see page 57) is now available on disk in a new version to download to your HP 95. Call us for details.

External Card Drive

PAMCO

Brand New



■ **Inexpensive** ■ **no need to open up your PC** ■ **no slot required**

Read or write to RAM cards (JEIDA or PCMCIA spec.) from your PC—your DOS will think it is dealing with a floppy drive.

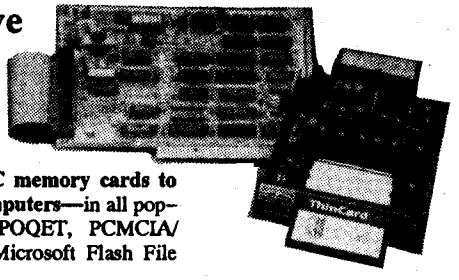
4" × 1" × 8", 19 oz. Includes AC adaptor for 9 VDC power, cable to connect to a standard parallel printer port on your PC, and easy-to-use software.

Stock #CD3568 [External Card Drive] List $150 ..... $134.95

Internal ThinCard Drive

Databook

Brand New



Transfer data from IC memory cards to and from PC/XT/AT computers—in all popular formats including POQET, PCMCIA/JEIDA Metaformat and Microsoft Flash File System.

Model TMB-200 will read or write to RAM cards and can also program FLASH, OTPand UV-erasable EPROM cards.

System contains a half-length PC board, 24" interconnect cable, card drive unit which fits into slots for either 3½" or 5¼" disc-drive units, software and user's guide.

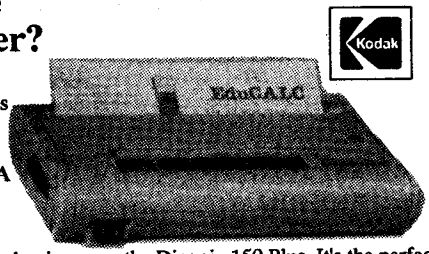
Stock #TMB200 [ThinCard Drive] $289

"Before you leap for a laptop . . . "

Business Week

HP 95LX

Will you require a portable printer?



- **Fast**—up to 180 cps
- **Small**—2 × 10.8 × 6.5 inches
- **Light**—3.1 pounds (w/o batteries or adapter)
- **Quiet**—ink-jet, only 45 dBA
- **Versatile**—plain paper, sheet or tractor

HP recommends this notebook-size gem, the Diconix 150 Plus. It's the perfect portable companion for your HP 95LX—and its superb print head is made by HP.

This is the serial, RS-232 model—reliable, handsome and inexpensive. Comes with manuals, AC adapter/recharger and 1 yr warranty; requires 5 C cells (not included). To use it, you'll need the Serial Interface Cable and Adapter Kit.

Stock #K150P [Diconix Serial Printer] List $539.....$419.95
Stock #CN [NiCd C cell] (requires 5)..... ea. $4.49

Will you want to phone home? Take along this tiny modem!

About the size of a deck of cards, it's completely portable. There is an internal 9-volt battery, so it draws no current from your computer or from a phone line.

Even though it's the smallest modem of its kind, and Hewlett-Packard recommends its use with the palmtop HP 95LX, it works just fine with your desktop PC as well (or any other computer that has a serial port).

The WorldPort comes in three models, for 1200 and 2400 baud, all designed for the HP 95LX. Each provides dual communication standards, so you can use it anywhere in the world. It supports the Bell 103/212A standards in the USA and also the internationally recognized CCITT v.21 (300 bps) and v.22 (1200 bps) standards, and it is both switch- and software-selectable. The 2400-baud models also support the world-wide v.22 bis standard. The 2400/V.42 BIS model has MNP 2-4 error control and MNP 5 data compression built in for error-free throughput up to 4800 bps.

Each modem is fully compatible with the Hayes AT Command Set, including all the latest extended commands. It also has Auto-dial and Auto-answer capabilities and automatic power control.

Of course, it has a U.S.-standard modular phone jack. But sometimes you're in a phone booth, a hotel room or a foreign country where no jack is available. The WorldPort gives you additional, direct interface to optional, low-cost acoustic cups for such field situations.

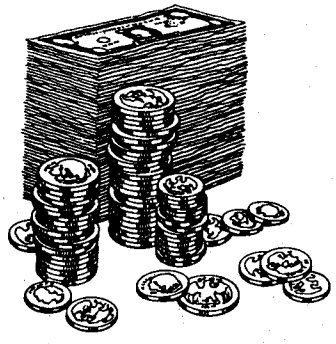
Comes with battery and AC adapter, 7' modular phone cable, acoustic cups adapter cable, internal speaker, Manual and Quick Reference Guide, plus bonus MNP Level 5 software for fast transmissions by data compression; 2-year warranty. To use it with your HP 95LX you'll need the Serial Interface Cable and Adapter Kit.

Stock #2461 [WorldPort 1200 Modem] List $159.....$134.95
Stock #2462 [WorldPort 2400 Modem] List $229.....$194.95
Stock #2489 [WorldPort 2400/V.42 BIS] List $349.....$299.95
Stock #2481 [Tandy Acoustic Coupler 2] $79.95

Money Manager software for your HP 95

Autobyte

Brand New



Portable accounting in the palm of your hand — gives full control over banks, checks, credit cards, income and expenses—plus simple reconciliation of banks and credit cards. Complete reports on screen or sent to printer.

Requires HP 95 with #82222A serial cable. Includes versions for 95 and also for your PC/compatible (512K RAM) on 3½" or 5¼" disk. Also, when you buy Money Manager, you may have us install the 95 version right on a 128K RAM card for you, ready to run even without a PC or cable (order #2494 with #2492).

Stock #2492 [95 Money Manager, 3½" & 5¼"] List $60.....$54.95
Stock #2494 [128K RAM Card with MM installed] $214.95

Coming Very Soon — plug-in software on ROM cards that slide right into your HP 95LX

- DERIVE—symbolic algebra and calculus, graphics and numerics, from Soft Warehouse
- DICTIONARY/THESAURUS—spelling correction, definitions and synonyms, from American Heritage and Hewlett-Packard
- MANAGING YOUR MONEY—personal checking, budget and investment manager, by Andrew Tobias, from MECA Software
- GLOBALINK—translators for phrases and entire sentences, for several languages
- ACT!—contact management software, for professionals to capture and access client information
- EXPRESS FOR MCI MAIL—transmits faxes, files, telexes and E-mail from anywhere, from PalmTree

We expect another 20 to 30 developers to offer software cards for your HP 95LX later this year—everything from sales productivity to games.

You can rely on EduCALC to keep you posted on these and other products for your HP 95LX—earliest!

Carrying Case for the HP 95

Palmtree

Brand New

Look good being safe! This handsome zippered pouch will protect your 95 from dust, dirt and spills as well as knocks, scratches and bruises—just what's needed for a go-everywhere computer.

Handy outside pocket plus inside pocket for IC cards, etc. Nylon model is made of washable, waterproof fabric. Leather model is soft and elegant.

Stock #2519 [Nylon 95 Carry Case, black] List $25.....$19.95
Stock #2520 [Leather 95 Carry Case, black] List $40 .....$27.95

Entry Coupon—

Free HP 95LX Drawing

Fill out and return this coupon to EduCALC before December 31, 1991, to enter (no purchase necessary).

BUY-NOW Cash Pay-off . . . If you win this drawing and you buy an HP 95LX from us during October, November or December, EduCALC will send you a full cash refund instead of the instrument.

I want to use my HP 95LX palmtop computer for:
☐ Business ☐ Engineering ☐ Sales ☐ Recreation
☐ School ☐ Real Estate ☐ Other_____

I am considering the following for my HP 95LX:
☐ Portable Disk Drive ☐ Application Card software
☐ 1MB RAM card ☐ 1.5 MB Ram card ☐ Modem
☐ Printer ☐ Soft Case ☐ Desktop Connection
☐ Other_____

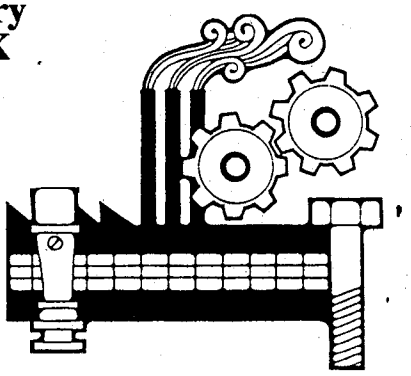
Send it to me,_____
(street)_____
(city, state, zip)_____
(I agree to having my name announced if I win)

Caroline Morgan, of Wahiawa, HI, won a free TI-81 in our last drawing. Enter now—it may be you this time!

Mechanical Engineering Equation Library for the HP 95LX

Paul Harmon

Brand New



160 most-used equations for MEs — plus Lotus 1-2-3 spreadsheets containing ME conversion factors, properties of common shapes and volumetric properties of common geometries. In addition there are text help files for each subject. All in less than 60K bytes of disk space.

Equation groups include spring design, gear design, beam design, stress analysis, press fit design, pressure vessel design, heat transfer analysis, electric motor design, fluid motion equations, a third order steam table approximation, and more.

The equations are grouped together in logical sets by a practicing mechanical engineer and greatly simplify iterative design tasks. Using the HP 95's calculator, spreadsheet, and cut and paste facility allows straightforward access to problem solving algorithms, the material and conversion constants required by the algorithms, and an easy way to bring the two together. The equation sets are simple to modify or extend, and new equation sets can be integrated with the library.

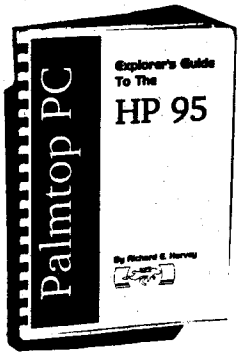
Comes on PC disk; requires Serial Cable (#82222A) to download.

Stock #2535 (ME Library for HP 95, 5¼") $29.95

Explorer's Guide to the HP 95

by Richard Harvey

Brand New



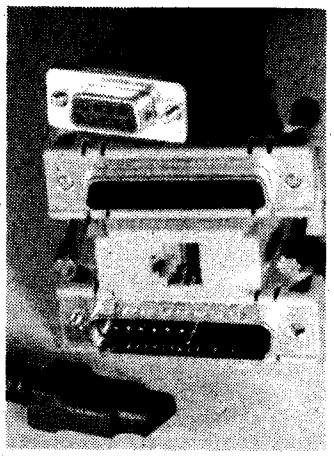
- Introduces DOS, redirection and piping file and directory management, TSRs.
- Program compatibility, customizing and optimizing the HP 95.
- Shows you how to use programs like CHKDSK, DEBUG. Hearts&Bones and the *other* version of TigerFox.
- Lots of tables, charts, sample programs and helpful hints.

Stock #2534, Explorer's Guide to HP 95, 112p combbound..... $17.95

Serial Interface Kit for HP 95

CMT

Brand New



Avoid connector misfits! This 6' cable fits HP 95 Serial Port on one end and its other end is a phone jack. Cable is shielded and has strain relief.

4 adapters are included that accept the cable's phone jack — a 9- and a 25-pin female to fit PCs, a 25-pin male for a modem, and a 25-pin male for a printer.

Kermit communication program for PCs is included on disk, along with brief directions for its use.

Stock #2533 [95 Serial Interface Kit, 5¼"] $36.95

SAVE THESE NUMBERS

☎ ***CASIO***	
Tech Support	*(800)634-1895*
☎ ***CALCULATED INDUSTRIES***	
Telephone	*(800)854-8075*
Telephone in California	*(800)231-0546*
☎ ***CORVALLIS MICRO TECHNOLOGY***	
Telephone	*(503)752-5456*
☎ ***D'ZIGN***	
Telephone	*(209)276-3460*
☎ ***HEWLETT-PACKARD***	
Technical Information	*(503)757-2004*
Repair Service	*(503)757-2002*
Thinkjet Hotline	*(208)323-2551*
HP 95 Technical Support	*(900)228-0025*
First minute is free	
☎ ***HP 12C Seminars***	
Edric Cane	*(818)957-3026*
☎ ***IDEC***	*(503)753-9403*
☎ ***PSION***	
Tech Support	*(617)237-1537*
☎ ***SHARP***	
Customer Service	*(800)732-8221*
Wizard Information	*(800)321-8877*
☎ ***SPARCOM***	*(503)757-8416*
☎ ***SURVEY MODULE INCORPORATED***	
The Forty-Eight Forum	*(615)378-4821*
☎ ***TEXAS INSTRUMENTS***	
Customer Relations	*(806)747-1882*
Technical Information	*(512)250-7407*
Calculator Support	*(800)842-2237*
☎ ***TRIPOD DATA SYSTEMS***	*(503)753-9322*
☎ ***WILEY***	
Tech Service	*(212)850-6788*
☎ ***WORLDPORT MODEMS***	
Technical Service	*(800)982-5151*

TI PPC—*TI Programmable Calculator Club includes coverage of the TI-74, TI-95, TI-59, TI-81 and Casio fx-7000G well as the TI-66. Membership includes 'TI PPC Notes' newsletter subscription. P.O. Box 1421, Largo, FL 34649-1421.*

HPCC—*Handheld and Portable Computer Club. The independent group for the users of Hewlett-Packard handheld and portable computers; publishes DATAFILE 8 times a year. Direct inquiries to Membership Secretary, Geggs Lodge, Hempton Road, Deddington, Oxfordshire, 0X5 4QG, Great Britain.*

Thank You for Your Order

POQET PC

Fully IBM-compatible
Palmtop PC
Send/receive e-mail
Work on bigger spreadsheets

POQET™

Brand New

- **A real MS-DOS computer, yet *it fits in a coat pocket!***
- **Its CGA-compatible screen has 200 × 640 pixels, *a full screen with 25 lines of 80 columns each!***
- **The keyboard is only 8.8 × 4.3 inches, but after an hour's practice you can expect to *touch-type it at three-quarters speed!***
- **It weighs only a pound, yet its two AA alkaline batteries last up to 100 hours, *two or three months of normal use!***

If you need true pocketability yet must have a keyboard big enough for some serious typing and/or a full width screen with 25 lines of crisp characters and standard graphics, this is your baby PC.

There's 512K system RAM, but that's all free for your use, since its 640K ROM holds MS-DOS 3.3 with BIOS, five Poqet Tools applications, PoqetLink communications, plus even GW BASIC. Thus none of these programs need to be booted into RAM—in fact, you won't need to boot this PC when you use it; it turns on right where you turned it off.

The PoqetTools include a four-function *calculator*, a simple *word-processor* for e-mail and memos, a *scheduler* with alarms for organizing your calendar, an *address-card file* and a *modem interface*.

Two card-slots (JEIDA/PCMCIA) accept ROM programs or extra RAM, just like PC disk-drives. Two RAM cards, one 64K and one 512K, are included with your instrument.

You can put your own programs or data on RAM cards, perhaps by down loading them from your desktop PC. Also, many software programs are already available on ROM cards, including: Lotus 1•2•3, Lotus Agenda, Lotus Works, WordPerfect 5.1 or Exec, XyWrite III Plus and ACT! 1.0

The Poqet PC has an RS-232C serial port, and its PoqetLink file transfer software is built in; a communications cable is included, along with the terminal software for your desk PC (on both 5¼" and 3½" disks).

So you get a complete kit with your instrument and its manuals and carrying case and batteries, including two RAM cards, a cable and the PC software. When you mail in your warranty registration (1 year, included), the manufacturer will send you all the PoqetTools programs for your desk PC, FREE.

Options include the Poqet Floppy (a 3½", 1.44 MB disk drive that runs on four AA cells) and a special 2400 baud modem made by WorldPort for Poqet PCs (requires #2504 cable).

Stock #2497 [Poqet PC] List $1450 ..... $1139
Stock #2498 [Poqet Floppy] List $495 ..... $424
Stock #2499 [Poqet WP Modem] List $345 ..... $249
Stock #2500 [Poqet 512K RAM Card] List $350 ..... $339
Stock #2501 [Poqet 1 MB RAM Card] List $700 ..... $649
Stock #2502 [Poqet 2 MB RAM Card] List $1400 1349
Stock #2503 [Poqet Parallel Cable] List $100 ..... $86.95
Stock #2504 [Poqet Serial/Modem Cable] List $60 ..... $49.95
Stock #2505 [Poqet Link Cable] List $60 ..... $49.95

Business Books & Software

Lotus in Minutes on the HP 95LX Palmtop PC

New

GRAPEVINE PUBLICATIONS, INC.

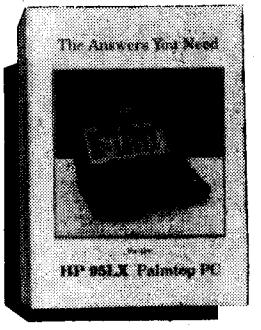
An easy, plain-English tutorial and quick reference for the essential commands and procedures of Lotus 1•2•3 in the 95, including global commands, formulas, macros and databases.

Examples cover real-world situations, common mistakes and all, so you see first-hand how problems come up and how to correct them.

Stock #2469, Lotus in Minutes, 124p softbound.....$8.95

The Answers You Need for the HP 95LX Palmtop PC

New



GRAPEVINE PUBLICATIONS, INC.

Friendly, quick answers to those questions everyone asks at first:

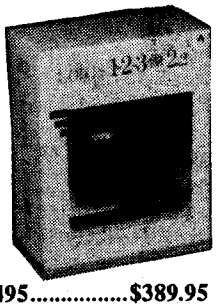
- How do I use the SOLVER with Lotus 1•2•3?
- How can I transfer data with the clipboard?

Plus common questions about Lists, Macros, Printing, Plotting and Charting, Notes, Memos, Appointments, Files, Directories and Subdirectories, Downloading and Uploading Files, and much more.

Stock #2468, Answers for the 95, 112p softbound.....$8.95

"The HP 95LX is a 10-ounce, XT-compatible PC that goes beyond gadgetry, offering road warriors a serious alternative to expensive laptops."
PC/Computing

Need a copy of Lotus for your PC?

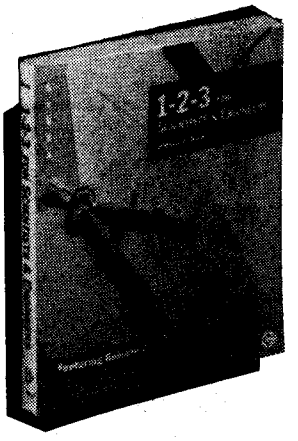


Lotus 1•2•3 is built right in to the ROM of your HP 95LX—that's a software bonus worth hundreds of dollars. If you don't yet have Lotus on your PC as well, you can order it right along with your 95 , at a **deep discount.**

Stock #2459 (Lotus 1•2•3 ver 2.2, 5¼") List $495.....$389.95
Stock #2460 (Lotus 1•2•3 ver 2.2, 3½") List $495.....$389.95

1•2•3 for Scientists and Engineers

by William Orvis



Did you realize that ordinary 1•2•3 offers mathematical operators and functions comparable to those in BASIC or FORTRAN? It does them with 15-digit precision and easily prints them out in handsome charts and graphs, too.

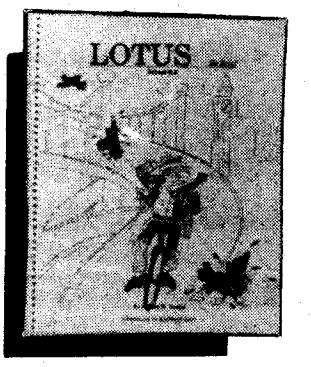
This how-to guide gives scores of examples based on real scientific applications, so you can learn to get solutions quickly and elegantly, and to present them in intuitive, graphic format.

You can create data and function tables, plot and fit curves, calculate statistics, sum series, differentiate and integrate, solve simultaneous equations and differential equations (ordinary and partial), and use database techniques for data handling.

Stock #525, 1•2•3 for Sci/Eng, 341p softbound.....$24.95

Lotus Be Brief

GRAPEVINE PUBLICATIONS, INC.



Get up-to-speed on Lotus 1•2•3 *fast and easy*!

Quick-start tutorial gives you the practical, hands-on lessons you want, in the basics of spreadsheets, databases and graphs.

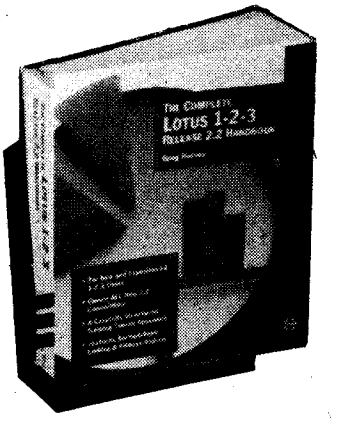
Each lesson shows you working examples of the commands you need to learn—as you progress, you'll build and modify your own real spreadsheet.

Reviews and summaries aplenty, plus quick-reference guide. Applies to Release 2.2 and earlier versions of 1•2•3.

Stock #2414, Lotus Be Brief, 124p softbound.....$8.95

The Complete LOTUS 1•2•3 Handbook

by Greg Harvey



The Carefully Structured Training Course—for first-time users and for upgraders.

Starts with a thorough introductory course — hands-on exercises right from GO. Includes all the extra learning aids you'll need, like Reviews, Summaries, Test Questions—and you'll get Trouble-shooting Guides in every chapter, so you avoid the most common errors and pitfalls.

Highlights new Release 2.2 features, adds quick-reference appendices on installation, customization, networking, and add-ins.

Stock #2418, Lotus 1•2•3 Handbook, 779p softbound $26.95

WordPerfect Desktop Companion

19.95

Stock #509, WordPerfect Desktop, 663p softbound ..... ~~$26.95~~

Quantitative Systems for Business—PC software pkg

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Mastering Excel on the IBM PC for ver 2.0

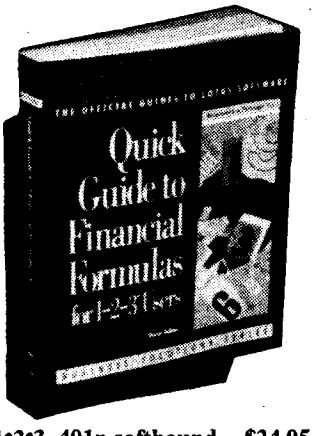
Stock #587, Mastering Excel, 628p softbound .....12.95..... ~~$24.95~~

Check out anything you want without risking a penny. At EduCALC you get a 30 day return privilege.

Quick Guide to Financial Formulas for 1•2•3 Users

by Steve Adams

Brand New



Find out what IRR really is and how to use it in 1•2•3, how to create formulas to calculate loan interest, how to track stock market gains, how to evaluate capital expenditures, how to calculate equity, how to depreciate real estate, more.

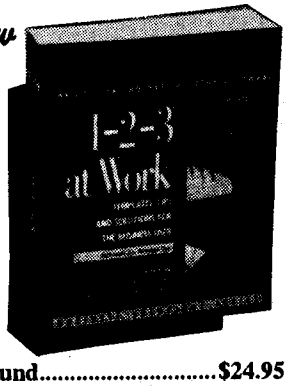
This practical book has hundreds of real-world examples to help you strengthen business skills and give you

Stock #2513, Financial Formulas for 1•2•3, 401p softbound ... $24.95

Business Books & Software

1-2-3 at Work

by Jack McGrath *Brand New*



Build impressive financial applications using this Official Guide for releases 2.x through 3.x

Create cash flow, payroll, accounts receivable, depreciation or tax calculation templates.

Set up credit-screening models, analyze discount rates, and calculate return on investment.

Build templates to calculate the risk in a foreign venture or plan for retirement.

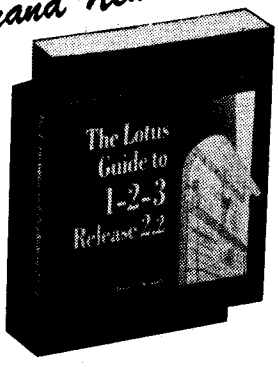
Employ statistical tools like weighted moving averages, regression analysis, and seasonal indices.

Stock #2458, 1•2•3 at Work, 678p softbound.....$24.95

The Lotus Guide to 1-2-3 Release 2.2

Brand New

by Peter Randall



- a thorough tutorial
- a comprehensive reference

Learn the essential 1•2•3 skills in these clear, practical tutorials as you build, analyze, graph and print reports for a simple cash-flow model.

Then put this reference manual by your machine—the complete reference section is organized alphabetically by command. In-depth discussions with instructions and inside tips let you quickly locate the help you need.

Stock #2457, Lotus Guide to 1•2•3, 693p softbound.....$24.95

A Little DOS . . . Will Do you

New

by Thomas Benjamin

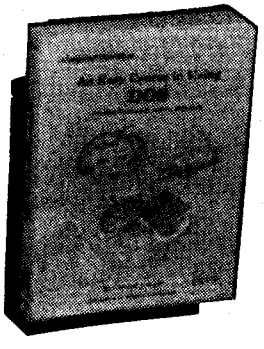
Get up-to-speed on DOS, quick, with this practical, hands-on mini course—the basics of disks, directories, files, extensions, pathnames, menus, shells, and more, for versions up to 4.01.

Each concise lesson shows you working examples of the commands you need to learn—you'll build and modify your own files and directories as you progress. It's the minimal kind of instruction that can turn a mysterious machine into your own, familiar tool!

Stock #2350, A Little DOS, 144p softbound.....$8.95

An Easy Course in Using DOS

by Chester Langin



Teach yourself — here's the finest, friendliest explanation about DOS, the operating language of PCs, with stimulating, memorable examples and self-quizzes, for versions up to 4.01.

It's thorough, too, even though "easy", starting with a brief history of calculating machines and a fascinating explanation of your computer's inner workings.

With this help you will grasp DOS, never again to be intimidated by your machine.

Stock #2456, Easy Course in DOS, 336p softbound.....$17.95

Financial Calculator PC Software Library

- **Big Screen Menus**
- **All Variables Showing**
- **All Results Visible**
- **Big, Quick Keyboard**
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- **Merely fill in blanks**

Select one of 80 specialized calculators—you work with a form that exactly fits your marketing problems.

Fill in blanks to compare rates and deals—you see results instantly, and you can have handsome printouts for your client.

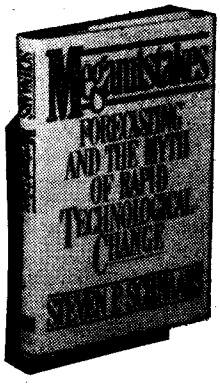
15 specialized calculators for Financial Analysis, 16 for Business and Personal Loans, 9 for Leasing, 13 for Business Analysis.

Stock #2407 (PC Financial Calculator, 5¼") List $190.....$119.95

Megamistakes

If you make present decisions that have future consequences, read on—

by Steven Schnaars



A practical approach to business planning—here's a careful, thorough study of the historical record of our last 20 years' forecasting, triumphs and disasters, plus a system you can use to avoid similar errors.

Entertaining, sometimes hilarious, this is not a book about silly forecasts or rare oddball blunders, but about common errors made by reasonable people who, like the rest of us, were caught up in the spirit of the times in which they lived.

Nearly 80% of business and product forecasts are dead wrong—use this book to put yourself in the top 20%!

Stock #2236, Megamistakes, 226p hardbound.....$19.95

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Low priced books with basic theory, definitions and hundreds of carefully solved problems—for reference and review.

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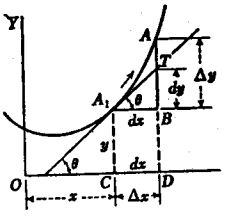
Calculus Refresher for Technical People

by Albert Klaf

■ for self-study (not a text)



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by Albert Klaf

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So complete that it's the only reference you'll ever need—clarifies the manual's start-up steps while you're still a beginner, teaches you steps as you progress, and becomes the lifetime reference that you really know your way around in.

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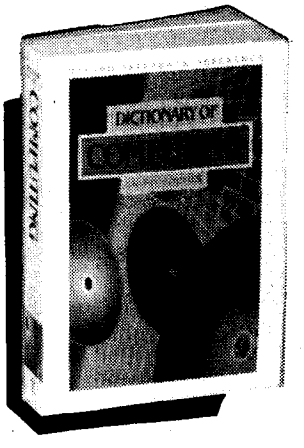

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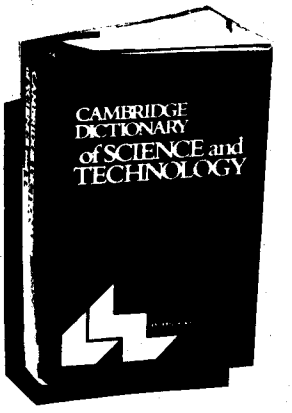

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This is the new world-standard version; formerly published under the title *Chambers Science and Technology Dictionary*.

Stock #2433, Cambridge Sci/Tech Dictionary, 1008p hrdbnd. $39.50

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2nd edn
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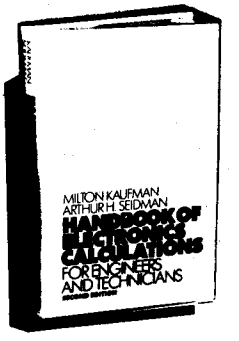

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Here's your all-in-one reference — easy to use, with a nuts-and-bolts approach — with hundreds of detailed, worked-out solutions to practical, everyday problems.

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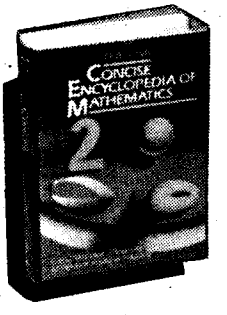
Stock #2166, Hndbk Electronic Calc, 786p hrdbnd $49.50

VNR Concise Encyclopedia of Mathematics 2nd edn
edited by Gellert/Gottwald/ Hellwich/Kästner/Küstner



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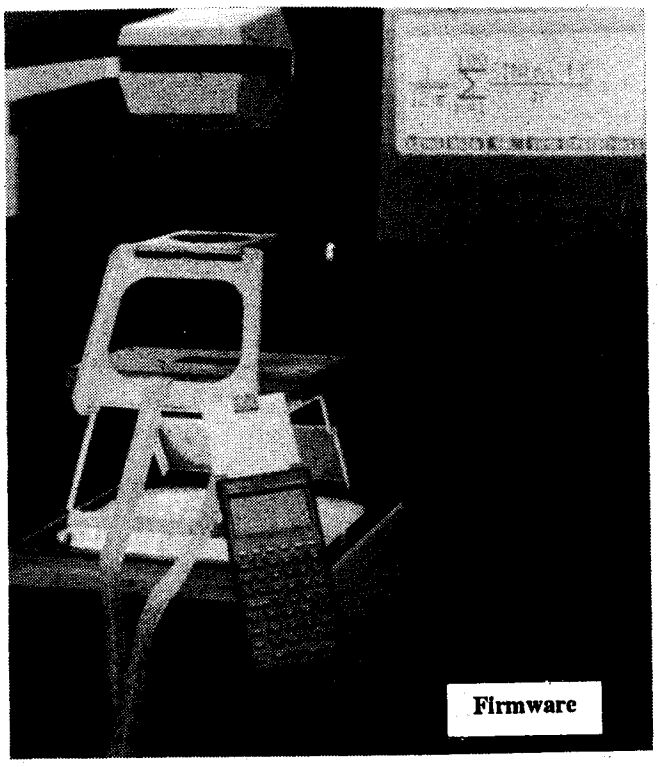
Read our mail from Georgia—

"We have been using EduCALC for many years now for our HP needs and we have never taken the time to thank you for your prompt and courteous service." Ross A. Lynn, Associate V.P., Keck & Wood, Inc., Atlanta

Projectable Calculators

Overhead–Projector Displays for the HP 19B, HP 28S and HP 48SX



Show your work to everyone—any function, formula, equation or graphic image from Hewlett Packard's most powerful calculators—displayed on any standard overhead projector.

The displays for the 19BII and the 28S include a modified calculator that is connected to the display unit with a 22–inch cable.

The 48SX display unit is attached to a 37–inch cable that plugs into your 48SX (calculator not included). Everything visible on your 48's LCD is displayed overhead except the iconic annunciators.

Stock #2264 [HP 19B OH Display] List $500 ..... $449.95
Stock #2179 [HP 28S OH Display] List $500..... $449.95
Stock #2268 [HP 48SX OH Display] List $500..... $449.95

Overhead–Display Magnifier

Doubles the width and the height of the screen image of your calculator display—that gives 4 times the area, so it's BIG! Works with any projectable calculator display, any projector.

Stock #2413A [OH Display Magnifier] List $200 ..... $139.95

Educator Overhead–Display Calculators

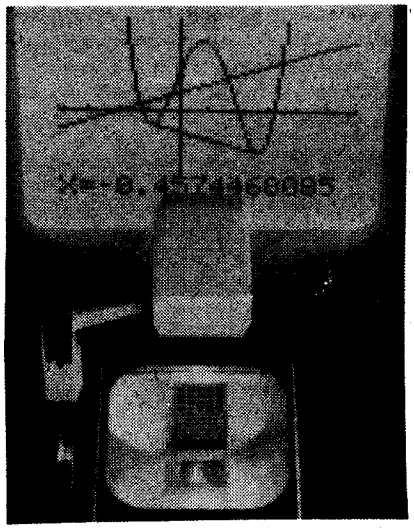
Excite and motivate your students—just lay your Educator on the stage of a standard overhead projector. It's transparent, so your whole class will see every keystroke, every result.

BASIC model emulates TI–108, INTERMEDIATE model emulates TI Math Explorer, SCIENTIFIC model emulates TI–30. Solar powered; comes with vinyl case.

Stock #2195 [Educator BASIC Calculator]..... $39.95
Stock #2196 [Educator INTERMEDIATE Calculator] $79.95
Stock #2197 [Educator SCIENTIFIC Calculator]..... $79.95
Stock #2325 [Educator TI–34 Calculator] $79.95
Stock #2328 [TI–81 Overhead Display]..... $315.00

Overhead Projectable Model

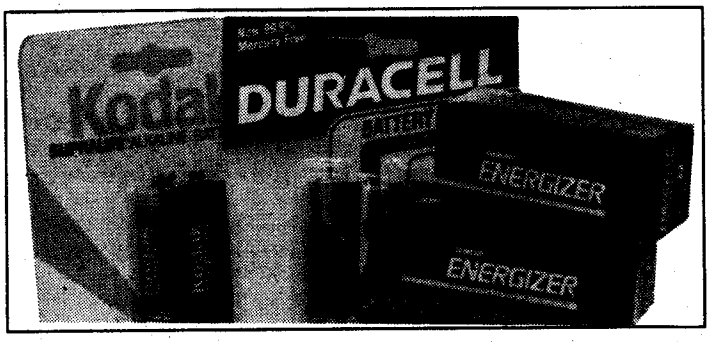
Casio



All features of the fx–7000G or the fx–7700G plus a transparent screen.

Stock #OH7000G [Overhead Projectable Display]..... $274.95
Stock #OH7700G [Overhead Projectable Display]..... $274.95

Calculator Batteries



Batteries

- Get *extra batteries* **now**—avoid memory loss—avoid shopping trips!
- Get *fresh batteries* **from EduCALC**—we sell the most calulator batteries, so we replace our stock fast!
- Premium brands (Eveready, Kodak, Duracell, etc.) guarantee longer life and freedom from leakage and corrosion—they're tested!

The most used calculator battery size is A76, an alkaline button which is also called LR–44, PX76A, 1166A or V13GA. The A76 may also be replaced with our **super long life** (50% more) silver–oxide battery, S76 (also called SR44, EPX76, MS76, RS76, G13, V76PX or 1107SOP).

Stock #A76 (Alkaline battery)..... $0.89
Stock #S76 (Silver oxide battery)..... $1.95

The following alkaline batteries are usually the **original equipment specification.** We also offer nickel–cadmium (NiCd) rechargeables in most of these sizes (and rechargers)—please call us for details.

Stock #AA (Alkaline battery)..... $.89
Stock #AAA (Alkaline battery)..... $.89
Stock #C (Alkaline battery)..... $1.39
Stock #D (Alkaline battery)..... $1.39
Stock #N (Alkaline battery)..... $.98
Stock #9V (Alkaline battery)..... $2.80

The lithium button–cells listed below last twice as long as alkalines.

Stock #CR1616 (Lithium battery) $1.75
Stock #CR2016 (Lithium battery) $1.75
Stock #CR2025 (Lithium battery) $1.95
Stock #CR2032 (Lithium battery) $1.95

Calculator Stands, Cases & Batteries

START HERE ☛
First find your instrument in these lists, then check out the stands & cases that fit it. Buy your batteries from the list on the preceding page.

	Manufacturer & Stock No.	Battery No. × Size	Stands & Wedges	Hard Leather Cases	Soft Leather Wallets	Vinyl Cases
A	HP10B, 14B, 17B, 20S 21S, 22S, 27S, 32S 42S	3×A76	538, 642, 2127, 597	2062	92169K/L/M 2068, 2070	
B	HP18C, 19B, 28C, 28S	3×N	769, 811, 2025	2063	92169D/E/F	
C	HP11C, 12C, 15C, 16C	3×A76	549, 629, 858 998	513	688/K 92169B	
D	HP41C, 41CV, 41CX	4×N	538, 642, 2127	511		82111A
E	HP71B	4×AAA	569			
F	HP48SX	3×AAA	2249, 2252,	2225		82221A

Manufacturer & Stock No.	Battery No. × Size	Stands & Wedges	Hard Leather Cases
TIBAII, 30, 36, 55III, 60	2×A76	642	
TICC Collegiate		769, 811, 2025	
TIFIA Financial Analyst	2×CR2032		
TIPB Banker			
TIPP Paperless Printer		858, 998	
TI65 Technical Analyst	2×A76		
TISC, 74, 95	4×AAA	569	
CICM, GAM, PMM	2×A76	642, 2127	
CIDMP	4×AAA		
Casio fx7000G/8000G	3×CR2032		
Casio SF4000	3×CR2025		
Casio SF7000, SF7500	3×CR2025		
Casio SF9000	2×CR2032, 1×CR2025		

Manufacturer & Stock No.	Battery No. × Size	Stand & Wedges	Hard Leather Cases
CMT MCII, MCV	5×AA		2104
Digitool DCINCH	2×A76		
Franklin FCSCM	2×AAA	642, 2127	
Franklin LM2000	4×AA		
HP 48 RAM Cards	1×CR2016		
Psion CM, XP	1×9V		
Sharp OZ7000 Wizard	2×CR2032, 1×CR1616	769, 811, 2025	
32K RAM Card OZ780	1×CR1616		
64K RAM Card OZ781	1×CR1616		
Sharp EL470 Travel	1×CR2032		
Sharp EL731 Financial	2×A76	642	
Sharp EL5200	2×CR2032		
Sharp EL6250H	2×CR2032		
Sharp PCE500	4×AAA		

Desk Stands & Wedges

- **Dramatic—give your desk a professional look**
- **Sensible—avoid keying errors by putting your instrument at the right angle on non-skid feet**
- **Eye-easing—reduce fatigue with a better view of your readout**

New

Astech

Rigid Plastic Case & Stand—tough, good-looking protection—with a clever double hinge so it becomes a stand when open. Coffee brown.
Stock #2326 [Rigid Case/Stand, size A] $18.95

Smoky acrylic stand—simple and handsome.
Stock #569 [Acrylic stand: Smoky, size E] $15.95
Stock #597 [Acrylic stand: Smoky, sizes D, A] $7.95

Clear plastic folding stand—solidly mounts with high-bond tape pads onto back of instrument so battery is accessible and data on back is visible. Folds on calculator to fit right into original case.
Stock #549 [Folding stand: Clear, size C] $8.95

Stainless steel stand—Attaches with super adhesive to the back of your instrument, offers 2 viewing angles, and looks good.
Stock #538 [Stainless steel stand, size D] List $13 ..... $11.95

EduCALC

Ice-clear acrylic stand—strong and thick, for desk-top sparkle.
Stock #998 [Acrylic stand: Clear, size C] $14.95
Stock #2025 [Acrylic stand: Clear, size B] $18.95
Stock #2127 [Acrylic stand: Clear, sizes A, D] $9.95
Stock #2252 [Acrylic stand: Clear, size F] $11.95

Brown plastic folding stand—adjustable viewing angle, quickly collapses for your pocket. A *Best Buy*.
Stock #2403 [Plastic stand; Brown, size A, D, F] $5.95

EduCALC

Bocote-wood desk wedge—exotic Bocote is amber to dark brown, dense and heavy (#858 weighs in at well over 1/2 pound). From Central America, Bocote's cost restricts its use to fine knife handles and letter opener blades.

Your name will intrigue everyone when it's engraved in brass on this desk-wedge for your calculator. Please fill in the boxes below—up to 16 characters (including punctuation and spaces)—just tear out this page and send it with your order (price includes nameplate).

Stock #811 [Bocote desk-wedge, size B] $29.95
Stock #858 [Bocote desk-wedge, size C] $21.95

Oak stand—dense, thick and sturdy—complements your desk and blends with other accessories.
Stock #629 [Oak stand, size C] $14.95
Stock #642 [Oak stand, sizes A, D] $14.95
Stock #769 [Oak stand, size B] $19.95
Stock #2249 [Oak stand, size F] $16.95

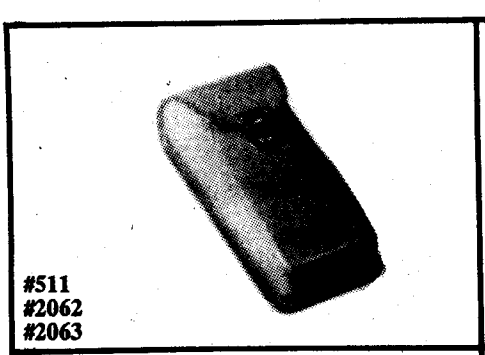
CHROME NAMEPLATE for your desk stand

EduCALC

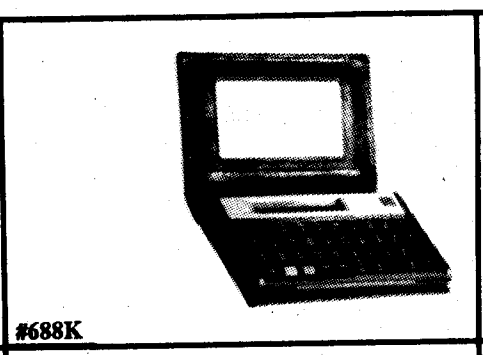
Personalize any stand above (except #549) with your own name, engraved in blackened letters on bright chrome-plated brass. Self adhesive backing. Please fill in boxes below for up to 16 engraved characters (including punctuation and spaces)—just tear out this page and send it with your order.

Stock #AWNP [Custom Nameplate: Chrome] $7.95

Calculator Stands, Cases & Batteries



#511
#2062
#2063



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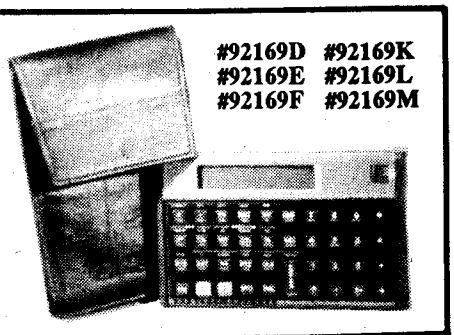
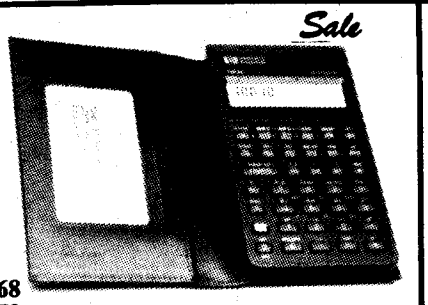
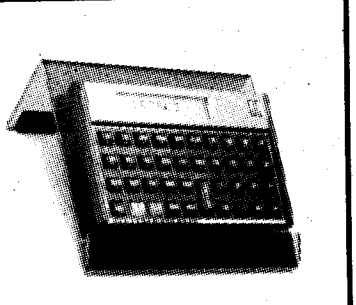


#92169D #92169K
#92169E #92169L
#92169F #92169M

Sale



#2068
#2070



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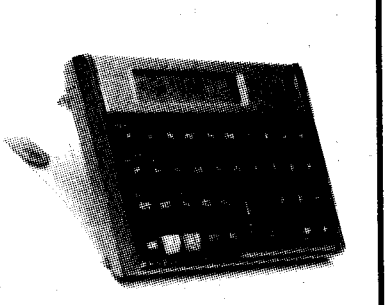

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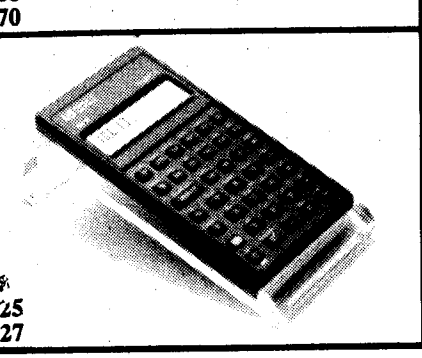

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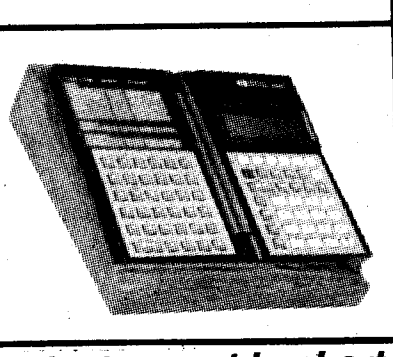
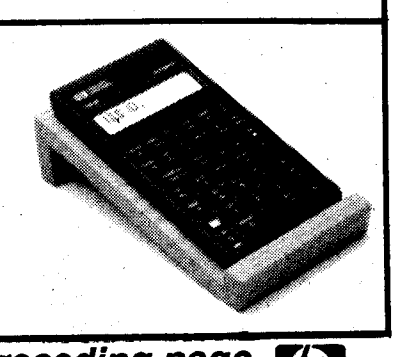
#2025
#2127



#811
#858



#629
#642
#769

☛ *Find out what fits your instrument in chart on preceding page* (hp)

Hard Leather Cases

- **Outdoors—surveying, construction, line work**
- **Inside the shop, factory, lab or mill**

Insure your calculator—if you work rough and ready, protect it with rigid 8 oz cowhide. Rugged, professional looking, with broad belt loop. Light tan.

These cases are handcrafted; they may require a long delivery time.

Stock #511 [Case: HP 41 without Crd Rdr, size D] List $39....$34.95
Stock #2062 [Hard Leather Case, size A] List $35.....$34.95
Stock #2063 [Hard Leather Case, size B] List $56.....$48.95
Stock #2225 [Hard Leather Case – 48SX, tan] $42.95

Soft Leather Wallets

Chary

- **Impressive—radiate boardroom competence**
- **Practical—keep your calculator clean and new**
- **Attractive—match your briefcase color**

Side-folding wallet with window pocket for cards and quick-reference notes. Plastic retainer holds instrument securely.

Stock #688K [Leather wallet, Black, size C] List $25.....$23.95

Tuck-top wallet with a second layer of pliant cowhide.

Stock #92169K [HP wallet: Black, size A] List $19.....$17.95
Stock #92169L [HP wallet: Brown, size A] List $19 .....$17.95
Stock #92169M [HP wallet: Burgundy, size A] List $19.....$17.95
Stock #92169D [HP wallet: Black, size B] List $19.....$17.95
Stock #92169B [wallet: Brown, size C] List $12 .....$10.95

Sale Chary

Side-folding wallet with a BIG BONUS—this wallet opens to become a desk stand when you use your instrument—holds it at the proper angle for hand and eye. Soft, thick, top-grain cowhide.

$19.95
Stock #2068 [Wallet/Stand: Black, size A] List $30.....~~$21.95~~
Stock #2070 [Wallet/Stand: Burgundy, size A] List $30 .....~~$21.95~~
$12.95

Soft Vinyl Cases

(hp) HEWLETT PACKARD

Just like the one that came with your instrument.

Stock #82111A [Vinyl case: Brown, size D].....$9.95
Stock #82221A [Vinyl case: Black, size F].....$14.95

Business Calculators

Selection Guide to HP Business Calculators

Each Model Has:

- ▸**Efficient Keystrokes**—no need for "compute key" for TVM (Time Value of Money)
- ▸**Direct Customer Phone Support**—so you can get quick answers to any questions on the operation of your calculator
- ▸**Algebraic Logic**—you enter problems just as you think about them—with **parentheses** to group expressions or you can switch to RPN with the HP-17BII or HP-19BII
- ▸**TVM**—loans, savings and leasing, with variable compounding for any number of periods/years
- ▸**Amortization**—labeling lets you see at a glance which values are interest, principal and remaining balance, plus auto-increment for periods
- ▸**Statistics**—std. dev., mean, weighted mean, forecasting with correlation coefficient, total, sums of $x/x^2/y/y^2/xy$, + − * / sqrt 1/x ln e^x
- ▸**Markup** as % of Price and Cost
- ▸**Interest Rate Conversions**
- ▸**% Change**

	HP-10B *Business essentials plus HP quality*	**HP-14B** *Built-in ROI, break-even and inventory analysis*	**HP-17IIB** *Delivers more than any calculator in its class RPN & Algebraic*	**HP-19IIB** *The ultimate for personalized business solutions RPN & Algebraic*
Built-in Functions[1]	**Over 100**	**Over 120**	**Over 250**	**Over 450**
HP's Ease-of-use Features		◆	◆◆◆	◆◆◆
Labels, prompts and messages Softkeys and menus Multiple lines of display				
Physical and Operating Features				
LCD Display size	1-line × 12-char ▪	1-line × 12-char	2-line × 22-char	4-line × 23-char
Keyboard	Numbers	Numbers	Numbers + letters[2]	Numbers + letters
Storage registers	15	4	10	10
Additional user RAM[3]	none	none	6500 bytes	6500 bytes
3-key memory (→M, RM, M+)	◆			
Automatic constant (K Key)	◆			
Business Graphics				◆◆◆
Scatter diagram/curve fit Histogram NPV versus interest rate				
Time and Data Management			◆	◆
Clock, calendar, appointments and alarms			◆	◆
Date arithmetic				◆
Edit, search, sort & store names, etc.			◆	◆
Edit, sort & store lists of numbers				◆
Subtotals, copy lists, label items				
Business/Financial Features			◆	◆
Print table with HP 82240A/B			◆	◆
Bond price and yield				
Breakeven, inventory turns, ROI%		◆	List-based	List-based
Cash flow analysis	Register-based	List-based	IRR NPV NFV NUS	IRR NPV NFV NUS
Cash flow functions	IRR NPV	IRR NPV	Mem. for 60	Mem. for 600
Number of cash flows	15	21		◆
Currency conversions			SL DB SOYD ACRS	SL DB SOYD ACRS
Depreciation methods				$3
Unit of Measurement Conversions				
Statistics/Mathematics Features				
Statistical analysis	Cumulative	Cumulative	List-based	List-based
Curve fitting methods	LIN	LIN LOG EXP POW	LIN LOG EXP POW	LIN LOG EXP POW
		Best Fit		
Other statistical functions	3	2		
LOG 10^x PI x^2	x^2 only	x^2 only	◆	◆
Trigonometry, probability, hyperbolics				◆
Customizing Features				
Customizing method				HP Solve
Conditional tests			7	7
Custom menus: user defines variable names			◆	◆
Solve for any variable w/o programming			◆	◆
Peripherals and Software				
HP application-specific solutions books			◆	◆
Optional infrared printer (HP 82240A/B)			◆	◆
EduCALC price	**$32.95**	**$61.95**	**$84.95**	**$134.95**

▪ For each product shown, this combination of features is unique among comparably priced calculators.

[1] Includes business, scientific, operational, customizing.

[2] HP-17B has letters accessible through softkeys.

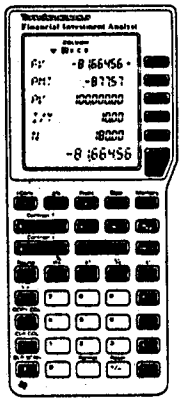
[3] Additional user RAM for storage of user-defined equations and their variables, as well as for name and number lists.

Business Calculators

TI Financial Investment Analyst

TEXAS INSTRUMENTS

Best Buy



- **You solve problems quicker and easier**—because variables are grouped the way you use them
- **You have more confidence in your answers**—because you can see the whole picture at once
- **Your client or coworker can watch your work unfold**—because this display is BIG

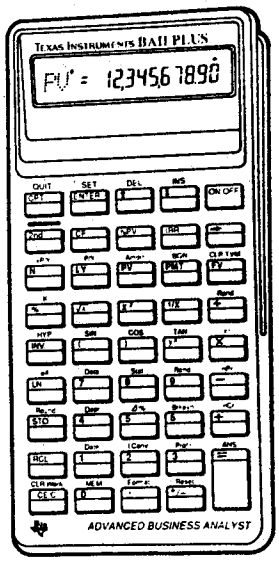
Software worksheets for Time-Value-of-Money and Amortization, Cash Flow, Bond Calculations, more—quick and easy to use. Column feature for comparing what-ifs so you won't need pencil and paper at all—just scroll from one column to another. The big picture for big decisions!

Stock #TIFIA [Financial Invst Analyst] List $100..... 49.95 ~~$79.95~~

IT'S EASY TO ORDER—use the order form at the rear of this catalog (it folds up to be its own envelope with printed address)

BAII PLUS
Advanced Business Analyst
Worksheet Calculator for Professionals and Students

TEXAS INSTRUMENTS



- **Time Value of Money**—solves annuities, loans, mortgages, leases, savings; generates amortization schedules.
- **Cash-Flow Analysis**—up to 24 uneven dash flows with up to 3-digit frequencies; computes NPV, IRR and NFV.
- **1 and 2-Variable, List-based Statistics**—4 regression options; linear, log, exponential and power.
- **Depreciation**—generates four different schedules: straight-line, sum-of-digits, declining balance with or without straight-line cross-over.
- **Bonds**—price and yield to maturity and to call; accrued interest; provides 2 day-count methods, actual/actual and 30/360.
- **Trigonometric Functions**, Natural Logarithms, Powers and Break-even Analysis.

Worksheets show 3-character prompts and 10-digit data with commas and decimal; scroll up or down to enter variable, move from one worksheet to another. Constant Memory when OFF (one CR2032 battery, included). 224-page User's Guide, quick-reference card, sliding protective case; 1 yr warranty.

Stock #TIBAIIP [Advanced Business Analyst] List $45.....$34.95

Read our mail from Texas—

"I'd like to thank you for your prompt, no-hassle service on a recent return I made. Educalc and its personnel have always serviced my orders quickly and accurately. You all certainly continue to have my future business."
Will Pherigo, Garland

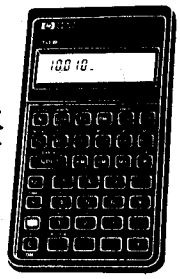
HP 10B
Algebraic entry—for Business Professionals and Students

HEWLETT PACKARD

Best Buy

Now—Traditional HP reliability is affordable

Algebraic



The HP 10B is the ONLY calculator under $40 that gives you ALL 3—

- **HP dependability**—molded keys, so the letters will never rub off and you'll never have to worry about sticking keys or double entries.
- **Label descriptors**—make it easy to understand and enter cash flows, and to see which values in a schedule are interest, principal and remaining balance.
- **Easy access to your solutions** — large 12-character display. Simple movement between functions, so you don't lose your data (no cumbersome 'compute' keys or mode switching, either). Auto-increment feature generates amortization schedules quickly.

☐ **Essential business and finance functions** — time value of money, amortization schedules, cash flow analysis with IRR and NPV, interest rate conversions, percent and percent change, margin and mark-up.

☐ **Statistics and math functions**—1- and 2-variable statistics with mean, weighted mean, sample and population standard deviations, forecasting and linear regression, basic math functions.

15-memory registers (more memory than similar models, and it's more usable), automatic constant saves keystrokes on repetitive calculations. Special 3-key 'M' memory for simple, fast use.

Batteries, Manual, wallet included, 1 yr warranty.

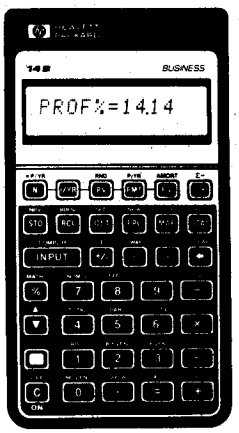
Stock #HP10B [Business Calculator] List $40 ..... $32.95

HP 14B
Algebraic Calculator
Smart Business at a Smart Price

- **Business Students**
- **Professionals**
- **Small-business Owners**

HEWLETT PACKARD

Algebraic



110 business functions pre-programmed for you—interactive and easy-to-use with prompts, labels and messages all in English.

Time-Value-of-Money, percents and margins, interest rate conversions. List-based cash flow with quick entry and editing. Built-in Return-On-Investment, break-even analysis, inventory-turnover rate.

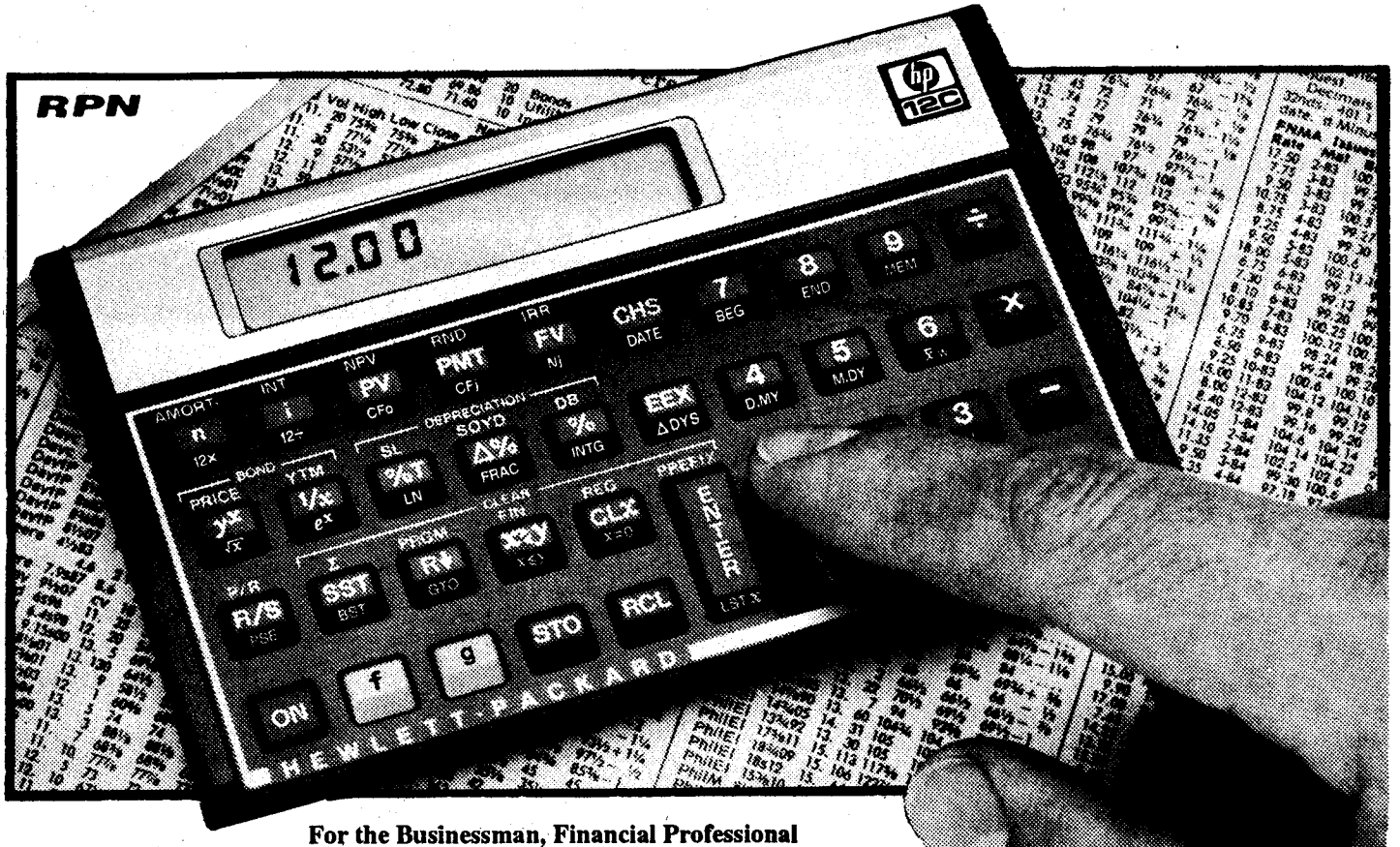
Complete 2-variable statistics, Forecasting with 4 curve fits—linear, exponential, power and log—and the Best Fit can be calculated automatically. Batteries, soft case included; 1 yr warranty.

Manual included, though you probably won't need it.

Stock #HP14B [Algebraic Business Calculator] List $80..... $61.95
Stock #2106, Business Student Applications Book $9.95

Calculator batteries, stands & cases—see pp 22-24

HP 12C Business Calculator



For the Businessman, Financial Professional and the Student who intends to join them.

HEWLETT PACKARD

☐BROKERS ☐ADVISORS ☐INVESTORS
☐LESSORS ☐BANKERS ☐CONSULTANTS

Imagine Yourself . . . Calculating what-if answers with ease—right on the spot!!! Answering your client's questions instantly without tables. Being first with IRR and NPV figures, to the penny! Freeing yourself from arithmetic, so you can do the real thinking.

YOU CAN—get yourself an HP 12C calculator and buy the book or tape 'SELF SEMINAR' listed below that fits your needs. Then invest a couple of hours study time. You'll be delighted with your quick new power and ease.

FINANCE/BUSINESS: Solves for Number of Periods (n), Compound Interest Rate (i), Present Value (PV), Payment (PMT), and Future Value (FV); Amortization with Accumulated Interest and Remaining Balance; Net Present Value (NPV); Internal Rate of Return (IRR); Bond Yield and Price; Depreciation by Straight-Line, Declining-Balance, Sum-of-Digits (SOD); Odd-day's Interest; Simple Interest; Percent, Percent Change and Percent of Total; Calendar Functions; Beginning- or End-of-Period selection; 5 Financial Registers.

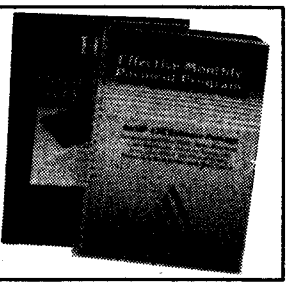
STATISTICS: Summations; 2-Variable Statistics with Means, Standard Deviations, Linear Regression, and Correlation Coefficient; Factorial.

PROGRAMMING: Up to 99 Steps; Program Review; Unconditional Branching; 2 Conditional Tests; Pause.

Yet it's FRIENDLY—a first-time calculator user can expect to solve amortization and cash-flow problems with the 5 top-row keys in a matter of minutes!

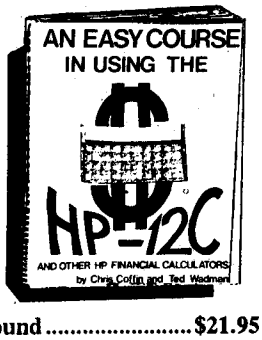
Stock #HP12C, List $95 (Battery & case included) $74.95

FREE BONUS BOOKS—EduCALC will include with your new HP 12C copies of TWO booklets, *Programming Hints for your HP 12C* and *Effective Monthly Payment Program*. These programming aids are both from Chary Software Products—they'll be automatically included with your order while supplies last.



An Easy Course in using the HP 12C

by Coffin/Wadman



Written just for you, to work at your own pace. You can relax, sit back and let these experts show you the way with lots of illustrations, example stories and quick reviews. This is a sometimes playful treatment, from the beginning, with many common applications in lending and investment analysis. It may also be used with other HP calculators, such as the 37, 38, 67/97 with pac software, and 41 with module software. HP #92234

Stock #260, Easy Course 12C, 256p wirebound $21.95

Quick Reference Guide for the HP 12C

by Evan Gost

This booklet is no bargain by the ounce—that's because it's been boiled down so it fits in your shirt pocket (even with cigarettes there), or in the 12C case. It is a training guide and ready reference which supplements your Owner's Handbook. The author also gives seminars on the use of the 12C, so he knows what you need.

Believe it or not, this little book contains methods and examples covering every function of the calculator—plus more examples to steer you through problems complex enough to require two-stage solutions. It's concise, complete and useful.

Stock #243, 12C Quick Reference Guide, 36p softbound $4.50

HP 12C Business Calculator

HP Applications Books

The HP 12C Training Guide

New! A self–seminar from Hewlett–Packard that begins at the beginning and ends with you feeling comfortable with your HP 12C. Lots of examples, tests with answers, summaries and reviews will guide you. When you're finished, you'll be able to calculate mortgage payments, loan amounts, determine IRRs, write and run a program, and much more!!

Stock #90022, 12C Training Guide, 169p softbound $14.95

HP 12C Solutions Handbook

Here are keystroke procedures from Hewlett–Packard supplementing your owner's handbook for applications to real estate, lending, savings, investment analysis, securities, forecasting, pricing, statistics, personal finance, Canadian mortgages, and more.

Stock #477, HP 12C Solutions, 152p softbound $14.95

HP 12C Leasing Applications Handbook

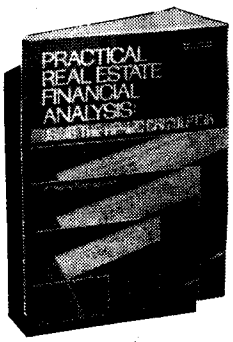
Stock #90021, Leasing Applications, 117p softbound.....$14.95

HP 12C Real Estate Applications Handbook

Stock #90015, Real Estate, 102p softbound.....$14.95

Practical Real Estate Financial Analysis: Using the HP 12C Calculator

by Greynolds/Aronofsky



- Executives
- Appraisers
- Consultants
- Bankers
- Accountants
- Lawyers

Step–by–step, for self–study — all the fundamentals, plus analysis of creative financing arrangements. Arising in an SMU short course, this book spells out the methods you need, in detail.

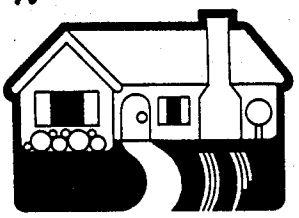
Programs are included to extend the power of your HP 12C. Plenty of worked–out examples, plus sufficient drills and exercises to study for certification exams.

Stock #461, RE Financial Anal, 233p sftbnd, List $24 ..... $21.95

Real Estate Mathematics Made Simple with the HP 12C

Brand New

by Diana Jacob

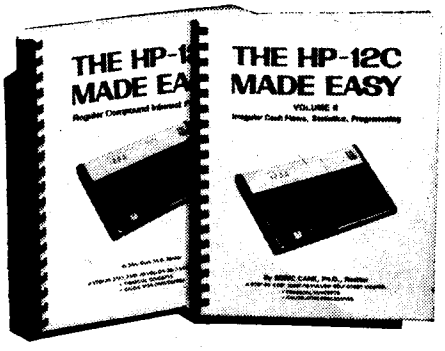


Start right at the beginning—no prerequisites—and learn through familiar real–estate examples how to do calculator math. It's made simple, with specific keystroke instructions, so you'll soon be closing sales with your own on–the–spot number power for creative financing.

Stock #2518, RE Math Simple, 121p notebook–bound $19.95

The HP 12C Made Easy

by Edric Cane



Open the box, open this book, and you're in business — master teacher Edric Cane will not so much simplify it as make it obvious. A realtor himself, Cane chooses examples mostly from real estate. They illustrate all the compound interest features on the HP 12C for regular cash flows. No prior knowledge of the calculator is assumed (and this course can be used with the HP 37, 38 and 41 machines as well).

This book was born in seminars where thousands of students have successfully gotten understanding and power—seminars at UCLA and UC Berkeley and to boards of realtors, executives and investors from New York to Hawaii. It anticipates your questions and gives clear, complete explanations of concepts.

Stock #273, HP 12C Made Easy, 246p combbound $19.95

VOLUME II: Complete your kit of 12C skills—learn how to handle IRREGULAR CASH FLOWS, STATISTICS and PROGRAMMING.

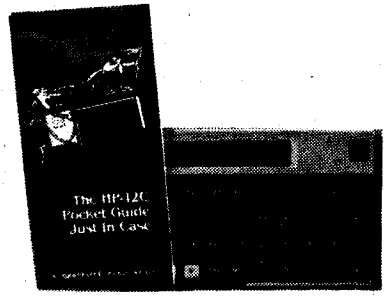
It's all quickly made clear to you by Edric Cane, the master teacher who wrote Volume I as well.

Vol I is not prerequisite to Vol II—but you'll need to thoroughly understand regular cash flows and simple arithmetic on the HP 12C.

Stock #682, 12C Easy Vol II, 228p combbound $19.95

The HP 12C Pocket Guide: Just in Case

by Coffin/Wadman



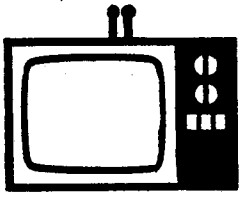
Jiffy HELP that fits in the pouch with your HP 12C—yet it is complete enough, with Descriptions, Instructions and Examples.

It covers every common type of problem, even guides you with (excellent) diagrams and illustrations in the authors' humorous style. It is quite well–written, plus you'll recognize the keyboard colors printed right in the instructions. Could you ask for more?

Stock #649, 12C Pocket Guide, 50p softbound $4.95

HP 12C Video Training Program

Smart$_Z$



Just pop this in your VCR and relax. Your trainer, Dale Hillard, takes you right from keyboard layout through programming basics—this full 2–hour training session gives you an end run around that owner's manual.

Former college professor Hillard is the RE broker that conducts HP 12C workshops nationally for the RE, banking and financial industries.

Stock #2182 (HP 12C Video Training Program).....$44.95

Investment Securities Program Guide using the HP 12C

"With the programs in this book, I've got the answers my clients want while my competitors are still setting up the problem," says Stephen R. Willson, VP (Public Finance), Blunt Ellis & Loewi, Incorporated; "I'm not always near my computer. But I always carry my HP 12C."

John L. Maginn, CFA, Exec VP and Treas, Mutual of Omaha Insurance Co., says, "I especially appreciated the organization of the *Program Guide* across the spectrum of calculations for securities, options, warrants/calls, and portfolio management. The book is concise, complete, comprehensive — and essential for the investment practitioner that loves the convenience and power of the HP 12C."

Stock #435, Investment Securities 12C, 147p softbd $17.95

HP 17BII Business Calculator

Brand New model 17BII—
it has HP's time-tested RPN entry system AND it has the Algebraic System common to other calculators. You choose—RPN or Algebraic—it does BOTH, and you can change it any time—you decide, and you can even try out either system while you use the other.

▸Business and Finance
- Amortization with table printout
- Bonds; price, yield
- Date arithmetic
- Depreciation
- Interest rate conversions
- List-based cash flows
- Mark-up as percent of price and cost, percent change, percent total
- Number lists; edit, sort, store
- Time value of money

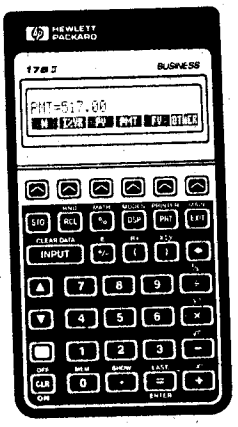
▸Statistics and Math
- Mean, standard deviation (1 or 2 variables),
- Weighted mean
- Forecasting/curve fitting
- LN, LOG, e^x, 10^x, y^x, $\sqrt{x}$, x^2, $1/x$

▸Time and Dates
- Appointments and alarms
- Clock, calendar

HP 17BII

HEWLETT PACKARD

RPN Algebraic



- **▸6,500 bytes of Usable Memory**
- **▸Algebraic Entry System with Menus and Softkeys for Easy-to-Use Power**
- **▸State-of-the-art Vertical Design with one-piece keyboard/case (robot assembled) and the sleek lines of a new German car**
- **▸HP SOLVE — enter custom equations without programming**
- **▸Clock, Calendar and InfraRed Printer interface**

It's 15 times faster than the HP 12C, and displays more than 4 times as much information. This powerful calculator from Hewlett-Packard is an indispensable companion for all the business problems you face daily. Practical, dependable, the HP 17B is by far the most function-packed business calculator you'll find anywhere for the price.

The HP 17B's powerful set of functions includes time value of money, amortization, discounted cash flows (NPV and IRR), interest rate conversions, percentage calculations, bonds, depreciations and more.

You'll use the HP 17B's list-based cash-flow and statistics functions to find solutions for a wide variety of business problems. Plus, you can store lists of data for quick retrieval, editing and calculating. And the HP 17B keeps a running total as you go.

You can analyze your sales by fitting them to four different curve models and use the HP 17B's forecasting application to predict future sales. In addition, this multipurpose calculator performs time calculations and reminds you of pending appointments.

And 6,500 bytes of usable memory mean you have enough room to store everything you need. Manual, batteries, soft case included; 1 yr warranty.

Stock #HP17BII [Business Calculator] List $110 ..... $84.95

Calculator batteries, stands & cases—see pp 22-24

Step-by-Step Books for Business Using the HP 17B

Stock #544, Real Estate, Banking, Leasing $9.95
Stock #545, Business, Finance, Accounting $9.95
Stock #546, Marketing, Sales $9.95
Stock #547, Personal Invest/Tax $9.95

InfraRed Printer for your HP 17, 18, 19, 27, 28, 41 with IR Module, 42 or HP 48SX

HEWLETT PACKARD

Get hard copies of all your graphics, data, programs or calculations. This silent thermal printer operates on four AA alkaline batteries (included) for go-anywhere portability — a set of batteries prints about 6000 lines, or there is an optional AC Adapter.

Printer connection cords have been replaced by an invisible infrared beam from your HP calculator. It's the only link required for your printing needs.

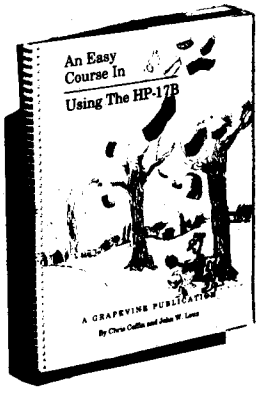
You have plenty of leeway — up to a foot and a half — to put the printer where it's most convenient for you. Just point your calculator at it and push {PRINT}. No cords to tangle with.

Print speed with fully-charged batteries is just a shade over a half second per 24-character line. By putting the printer in TRACE mode, you can print out a complete record of the numbers you've used in your calculations, as well as your results. Or print selectively and provide clients with copies of quotes, amortization tables or itemized lists.

Stock #82240B [Portable InfraRed Printer] List $135 ..... $115.95
Stock #82241A [AC Adapter for IR Printer] $14.95
Stock #82175A [2¼" Printer Paper, black, 6 rolls] $9.95
Stock #AA [Batteries, Printer uses 4] ..... ea $.89
Stock #92169G [Cover, black] $22.95
Stock #92169H [Cover, brown] $22.95
Stock #92169J [Cover, burgundy] $22.95

An Easy Course in Using the HP 17B

GRAPEVINE PUBLICATIONS, INC.



A clear, straightforward explanation of your HP 17B. It's written in Grapevine's friendly style, so it's easy to understand, right from the first.

You'll learn to work with menus, lists, arithmetic — how to develop your personal list of equations. Then you'll explore the built-in financial equations, the 'hows' and 'whys' of loans, mortgages and investments — and make sense of them all with the Time Value of Money keys NPV, NFV, IRR, and MIRR.

Clear diagrams and explicit, worked-out examples from Savings, Real Estate and Banking will tie it all together for you, painlessly!

Stock #540, 17B Easy Course, List $23 ..... $21.95

The HP 17B Pocket Guide: Just in Case

GRAPEVINE PUBLICATIONS, INC.

Refreshes your memory after you have completed the Easy Course. Lots of examples to follow, each with keystrokes and explanations. And this Friendly Companion fits right in your calculator's case.

Stock #2022, HP 17B Pocket Guide, 64p softbound $4.95

HANDS-ON

Audio-tape introduction to the HP 17BII & HP 19BII

by Edric Cane

Brand New

90 minutes to confidence and power—you'll listen to explanations, follow instructions, punch numbers in. You'll get the thrill of seeing the correct answer come up in your display, the confidence that you can do it, the power over numbers that you've wanted.

60 page manual gives written models, further explanations and practice problems with answers. No prior knowledge required—ideal for a beginner, for review, or for moving up from the HP 12C.

Stock #2512 (Hands-On 17 & 19, manual) $18.95

The HP 19BII Business Consultant II

John C. Dvorak of the *San Francisco Examiner* and *PC Magazine* calls the Business Consultant "The hottest new portable super calculator." He likes the printer, too: "Forget about RS-232 cables. This is the way to go. Watching a little printer magically print data from an infrared link is both eerie and exciting."

HEWLETT PACKARD

Data-Saving and Sorting Power

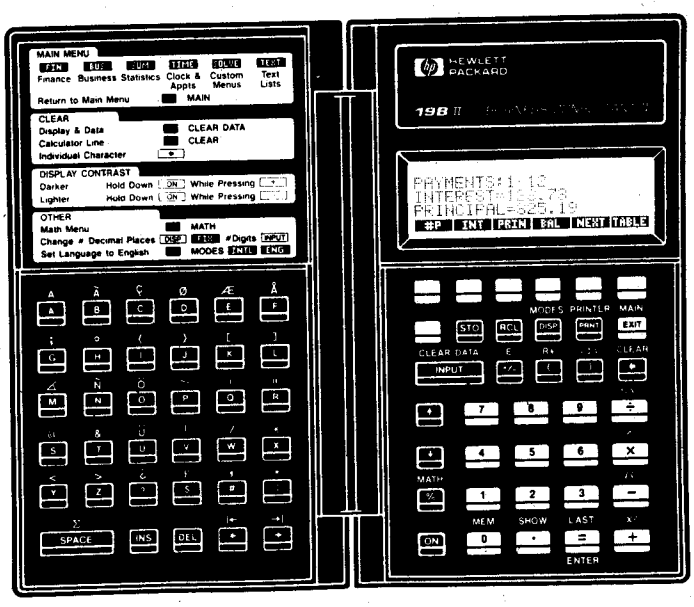
Problem-Oriented Power

Time-Managing Power

Menu-Driven Power

RPN Algebraic

Brand New model 19BII—it has HP's time-tested RPN entry system AND it has the Algebraic System common to other calculators. You choose—RPN or Algebraic—it does BOTH, and you can change it any time—you decide, and you can even try out either system while you use the other.



Solve your special problems

☐ USER DESIGNED POWER—Hewlett-Packard asked people like yourself what they wanted in a finely-designed business calculator. Now you've got it. There are 2 **straightforward keyboards**—one has numbers and function keys while the other keeps your alphabet separate for typing ease—yet the Business Consultant II folds for your pocket. The **revolutionary 4-line LCD screen** shows you the numbers you're calculating with, or menu options to choose from. An **infrared printer interface** drives the optional printer, without bothersome cables.

☐ MENU-DRIVEN POWER—**the Business Consultant II is self-guiding,** with Prompts in English, so you'll find it easy to use right from the start. You won't be referring to the manual very often.

Standard business formulas are already built in. Simply make a choice, then push a button.

To help you find your way around, menus—a series of headings—appear on the Business Consultant's four-line screen.

They make these functions push-button close:

- ☐ Interest rates
- ☐ Time and appointments
- ☐ Payment schedules
- ☐ Markup and margin
- ☐ Statistics
- ☐ Internal rate of return
- ☐ Interest rate conversions

☐ PROBLEM-ORIENTED POWER—**the Business Consultant II is smart,** so you'll only tell it the problem formulas, and it will figure out how to solve your problem for you. No more will you need to program your solutions; just tell your BUSINESS CONSULTANT what the problem is!

☐ TIME-MANAGING POWER—**the Business Consultant II is punctual,** so it will remember appointments for you—and remind you with a beep. In addition to the 19B's calendar, there's a handy clock in it, and memory for your expenses, so you can note them right on the spot. With the clock you can keep track of billable time.

☐ DATA SAVING & SORTING POWER—when you key in data to do statistical analysis (say, mean and standard deviation even on weighted data) **your Business Consultant II remembers every data point,** not just those sums it uses to calculate your statistics. Furthermore, it will sort your data points, so you can find their minimum, maximum, range, median, mode, and percentiles, or print them all out in sorted order.

The Business Consultant II does bond price/yield/depreciation, plus all the usual financial calculations, percent, compound interest, cash-flow analysis, calendar, statistics, factorial, trig, probability, and ln x, e^x, y^x—all the functions you expect.

Its new power includes Interest Rate Conversions, Markup as % of Cost and Price, Net Future Value (NFV), Net Uniform Series (NUS), Clock Functions,

WITHOUT PROGRAMMING!

Appointments and Alarms, Logarithmic and Exponential and Power Curve Fitting, Currency Conversions.

It calculates with Algebraic Logic, dealing with equations just as you write them. It has 6500 bytes of RAM memory for your own customized menus, equations or data, and it remembers everything while it's turned off. **It's 15 times faster than the HP 12C, and displays more than 9 times as much information.**

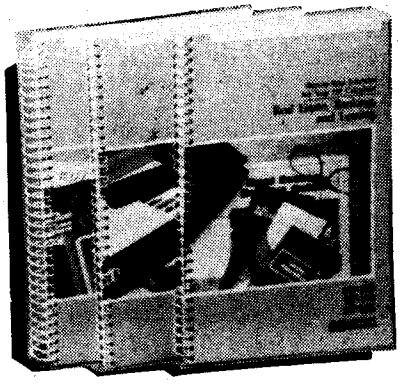
The Business Consultant II is 3 5/8" wide by 6 1/2" high and 5/8" thick when folded; open, it's 7 1/2" wide. Owner's Manual and batteries included.

Stock #HP19BII [Business Consultant II] List $175..... $134.95

Calculator batteries, stands & cases and OH projector models—see pp 22-24
InfraRed Printer—see p 46

Step-by-Step Books for Business Using the HP Business Consultant II

HEWLETT PACKARD



Let experts help you set up your calculations so you can work with them most easily. These professional references include practical routines and tips for getting the most from the Built-in Menus as well as setting up Personal Menus for your specific profession. Order the ones that fit your work.

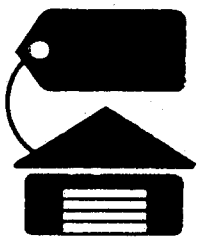
Stock #544, Real Estate, Banking, Leasing $9.95
Stock #545, Business, Finance, Accounting..... $9.95
Stock #546, Marketing, Sales $9.95
Stock #547, Personal Invest, Tax Plan..... $9.95
Stock #548, Tech Applications using HP Solve $9.95

HP 19BII Business Consultant II

The Home Buyer Income Qualification Manual— HP 17 and HP 19 Routines

■ Realtors ■ Investors
■ Loan Officers

by John Tirone



Don't chase deals that cannot income-qualify! Check it out quickly and accurately on your 17 or 19.

It beats the back of the envelope and the paper napkin by miles—your calculator automatically takes account of lending ratios, taxes, other expenses and debt load, and returns to you standard PITI, annual income to qualify, required down payment, or average after-tax payment cost as a function of holding period.

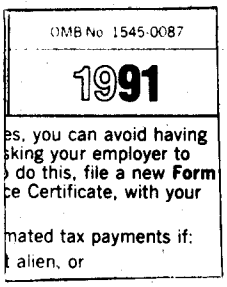
Manual has explanations, formulas, examples and practice problems with all its programs—just punch them in. Menus and labels in English guide you for quick, error-free computation under pressure.

Stock #2187, Home Buyer Qualif Manual, 73p wirebound.....$9.95

1991 Revisions to The Home Buyer Qualification Manual

by John Tirone

Brand New



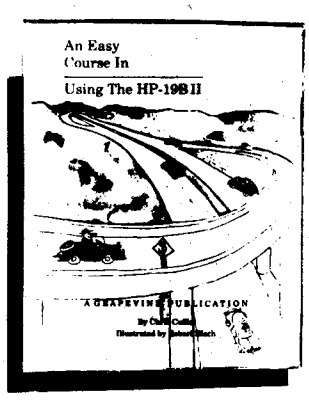
This supplement to #2187 covers the impact of the **Revenue Reconciliation Act of 1990** on after-tax payment costs.

There are also 4 new buyer-qualification routines, new shorter versions of the PMT/INCOME and INCOME algorithms, and 3 new all-in-one routines for tax-specific computations of PMT/INCOME/ATAX.

Stock #2514, 1991 Revisions for Qualification, 90p.....$14.95

An Easy Course in Using the HP 19BII

GRAPEVINE PUBLICATIONS, INC.

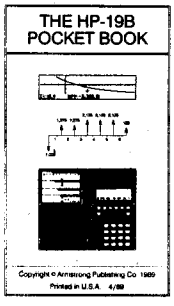


Your own "Driver's Training Course" for the 19BII—quick & easy.

First shows you how to use menus, lists and arithmetic, in either RPN or algebraic notation. Then you get lots of "on-the-road training" in financial problem-solving and cash-flow analysis. Perfect for HP 19B as well.

Stock #541, Easy HP 19BII, 320p softbound.....$21.95

HP 19B Pocket Book



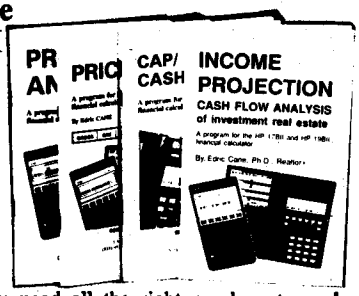
All the help and reference you'll want to have along with you—fits right in the case with your instrument.

Covers calculator operation and all the functions, using menus, printing, etc. Details with examples for TVM, amortization, even and uneven cash flows, bonds, depreciation, more. How to use time and appointment functions, equation solving, text lists, exchange rates and conversions.

Stock #2142, 19B Pocket Book, 60p softbound.....$6.95

4 Programs that change your HP 17B II or 19B II into a Real Estate Investment Analysis Powerhouse

by Edric Cane *Brand New*



Be an Income Property Pro—if you're a buyer, seller or a broker you need all the right numbers to **make profitable decisions and get the edge on your competitors.**

Use these 4 complementary programs to get on-the-spot, authoritative figures — each comes with seminar leader Cane's how-to manual, complete with practical examples and full instructions for keying in the program.

You can also get a new HP 17BII or HP 19BII with all 4 programs already keyed into it for you by Edric Cane Seminars—each package comes complete with a **FREE** 90-minute audio tape, "Hands-On Introduction to the HP 17BII & HP 19BII" (#2512).

Income Projection/Cash Flow Analysis program puts a specialized spreadsheet into your calculator. You key in the data (income and expenses, their ratios adjusted for each year, vacancy rate, finance terms, tax, depreciation) and press a single key to calculate 20 values for subsequent years (cash flow before/after tax, NOI, depreciations, interest, balance, income, etc.) to display or send to IR printer. Test your assumptions in seconds.

Stock #2248 (Income/Cash Flow pgm/manual).....$24.95

Property Analyzer program gives you 13 labels—all the data about price, down, loan 1, loan 2, existing loan, cash-on-cash return, NOI and tax—so you have complete freedom to key in 12 of them and solve for the missing one. Test 'what-if' scenarios in seconds, take control of the numbers! (This program updates our old #2423.)

Stock #2507 (Property Analyzer pgm/manual).....$34.45

Price/Ratio program creates six labels—GROSS, GIM, XPN%. CAP, NOI, PRICE—and provides intuitive access to all the math relations between them.

Stock #2508 (Price/Ratio pgm/book).....$34.45

CAP/Cash-on-Cash program gives you 5 labels — DNP%, COC%. I%, TERM—you key in any 4 values and calculate the fifth. Given NOI or PRICE, it automatically finds your PRICE, NOI, down payment, net spendable, loan amount, payment, loan constant.

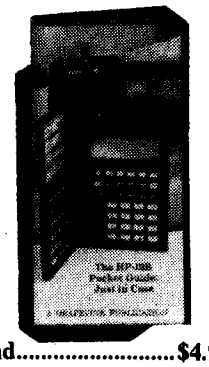
Stock #2509 (CAP/COC pgm/manual).....$24.95

Calculator Package with 4 keyed-in programs and FREE audio tape.

Stock #2510 (HP 17 Package).....$234
Stock #2511 (HP 19 Package).....$274

The HP 19B Pocket Guide: Just in Case

GRAPEVINE PUBLICATIONS, INC.



Refreshes your memory after you have completed the Easy Course. Lots of examples to follow, each with keystrokes and explanations. And this Friendly Companion fits right in your calculator's case.

Stock #2007, HP 19B Pocket Guide, 64p sftbnd.....$4.95

Alpha Keyboard Overlay for the HP 18C Business Consultant

Put the 18C Shifted-Alpha symbols right by your fingertips. They're silk-screened onto the back side of an overlay, so they won't wear off. Overlay is self-adhesive to jump onto your keyboard.

Stock #761 [18C Alpha Overlay] List $5 ..... ~~$4.50~~ $2.95

School Calculators

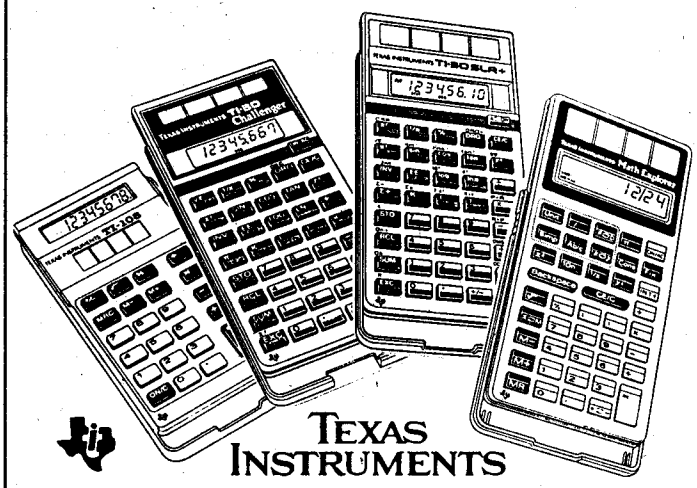
Notice to Educators —

EduCALC is your distributor for school calculators — from TI, HP, Sharp and Casio — designed to follow your student's progress, K through 12, in his or her American classroom.

Call our School Specialist, Mike Bruggeman, at (800)677-7001 for your best wholesale price in large or small quantities (min. 10). We'll deliver them to you quickly.

Please address your Requests for Bids to Mike, also.

School Calculators



Each model is *ANYLITE* solar-powered and has a big 8-digit LCD display. Each has its large keys color coded and arranged in 'zones' for easy, natural learning.

Each model is engineered for heavy use in schools—impact-resistant, with a clever slide-on case that can take a beating. Instructions included; 1-year warranty.

For grades K through 4: TI-108

Four basic functions plus percent, square root, and plus/minus keys, as well as automatic constant.

Stock #TI108 [Grade School Calculator] $6.50

For the Youngest Students: TI Math Mate

AOS Algebraic Operating System with parenthesis amd memory keys—tough case is attractive red with yellow buttons.

Stock #TI7 [Math Mate] $8.50

For grades 4 through 8: TI Math Explorer

4-8th grade students do **fraction arithmetic** on this **unique calculator**—input, display, simplify and manipulate fractions or whole numbers. They get other functions, too, like integer division with whole-number remainder results, and place value computations.

Stock #TIME [Math Explorer] $20.95

For grades 7 through 10: TI-30 Challenger

All basic math, trig and scientific functions, including logarithms, anti-logarithms, and pi. Large color-coded keys speed calculations, minimize errors.

Stock #TI30C [Challenger 30] $15.95

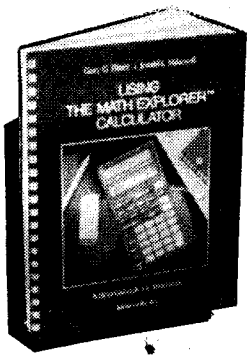
For grades 9 through 12: TI-30SLR+ & TI-34

TI-30 SLR+ has the functions HS teachers want for college prep—log and antilog, trig and 1-variable statistics.

TI-34 has all the functions of the TI-30SLR+ and also does hex/binary/octal conversions, Boolean logic and fractions. 10-digit display.

Stock #TI30SLR [Sci/Stat Calculator] $16.95
Stock #TI34 [Advanced Scientific] $20.95

Using the Math Explorer Calculator
A sourcebook
by Bitter/Mikesell

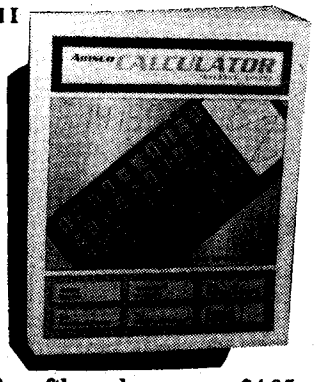


Lots of motivation and instruction, for teachers and for students — **includes everything you'll need to introduce calculators,** with hands-on practice in problem solving.

Activities, step-by-step lesson plans with answers, masters for student worksheets, inservice workshop materials with overhead transparency masters, plus resources and reference materials for a full year's program. "Career" chapter for business community.

Stock #2221, Using Math Explorer, Sourcebook $24.95

Calculator Handbook Level I
suitable for grades 7-9
by Ann Gantert *Brand New*

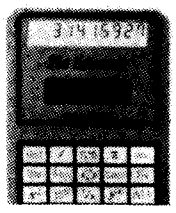


Takes the mystery out of calculators! Shows you just how to use all the keys on the simple calculators — memory, percent, square root. Covers applications to arithmetic and algebra—powers and roots, solving equations, more.

Specialized calculators are also well-explained — scientific, statistical, fractional and graphing calculators, all with exercises and reviews, so you learn hands-on.

Stock #2524, Calculator Handbook, 122p softbound $4.95

Educator Overhead-Display Calculators



Excite and motivate your students — just lay your Educator on the stage of a standard overhead projector. It's transparent, so your whole class will see every keystroke, every result.

BASIC model emulates TI-108, INTERMEDIATE model emulates TI Math Explorer, SCIENTIFIC model emulates TI-30. Solar powered; comes with vinyl case.

Stock #2195 [Educator BASIC Calculator] $39.95
Stock #2196 [Educator INTERMEDIATE Calculator] $79.95
Stock #2197 [Educator SCIENTIFIC Calculator] $79.95

Overhead Projectable Model

Casio

All features of the fx-7000G or the fx-7700G plus a transparent screen.

Stock #OH7000G [Overhead Projectable Display] $274.95
Stock #OH7700G [Overhead Projectable Display] $274.95

Advanced Graphing Calculator Giveaway Programs for High Schools

Program #1: Buy three HP 28Ss or HP 48SXs and receive a fourth one FREE.

Program #2: Send in 30 UPC labels from HP 28S or HP 48SX boxes and receive one 28S or 48SX Overhead Display FREE. *A $500 value!*

To participate in either or both of these limited-time programs, please contact Mike Bruggeman, our School Specialist, at (800)677-7001.

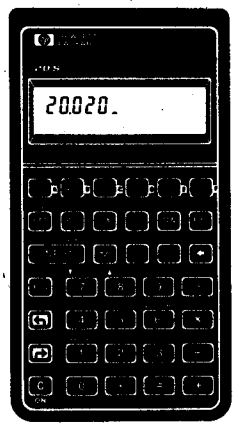
Scientific Calculators

HP 20S

Algebraic

HEWLETT PACKARD

A powerhouse scientific calculator with algebraic entry — and a startling low price for real HP reliability!



This HP 20S is the ONLY calculator for under $50 that gives you BOTH

- **Keystroke Programming—**
  - ☐ 99 program steps
  - ☐ 10 storage registers
  - ☐ conditional tests and branching
- **A Program Library**
  - ☐ equation solver
  - ☐ curve fitting
  - ☐ quadratic equations
  - ☐ complex number operations
  - ☐ numerical integration
  - ☐ 3×3 matrix operations

All essential math functions are here—exponential, natural and common log and antilog, pi, percent, percent change, polar/rectangular coordinate conversions, and many more.

Two-variable statistics—including means and weighted means, regression, linear estimation, standard deviation, correlation coefficient; combinations, permutations, factorials.

Every essential trig function—including hyperbolics.

Base conversions and arithmetic—decimals, hexadecimal, octal, binary.

English/metric unit conversions—mass, distance, volume, temperature.

All this with 12-digit precision, an excellent LCD readout, and a keyboard that includes alpha A-F (for labels/subroutines/hexadecimals)! Batteries, manual, soft case included; 1 yr warranty.

Stock #HP20S [Scientific Calculator] List $40 ..... $32.95

fx-115D
*TURBO*Scientific Solar Calculator

New

Casio

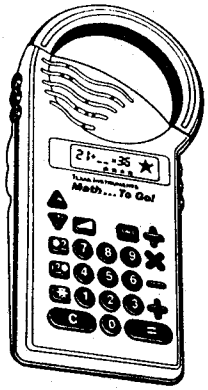
- 167 functions
- base conversions
- regression analysis
- engineering symbols
- complex numbers
- logical operations

AOS algebraic operation with 18 levels of parentheses, 1 independent and 6 constant memories. Includes Workbook and pouch.

Stock #FX115D [Solar Scientific Calculator] List $25 ..... $19.95

Math . . . To Go

TEXAS INSTRUMENTS



Famous for making math practice Fun and Easy!

- Four skill levels, for ages 5 to 9
- Rewards & keeps score
- Math table practice
- Animated display

Includes instructions, requires 2 AA batteries; 1-year warranty.

Stock #TIMTG [Math TG] $17.95

Stock #AA [Alkaline Batteries] uses 2 ..... ea $.89

HP 21S
Statistical/Scientific Calculator

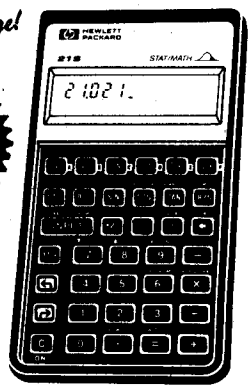
HEWLETT PACKARD

For Social, Biological, Management, and Physical Scientists

The Student's Unfair Advantage!

Distribution tables at the touch of a button — this will save your life in a statistics class!

Algebraic



Does all your table lookups! Remembers all your formulas

The first ever calculator designed especially for college-level statistics—with algebraic entry!

- **Probability and statistics functions**—linear regression, mean, sample and population standard deviation, combinations/permutations.
- **Built-in distributions**—normal, binomial, F, Students' t, chi-square.
- **Built-in program library**—1- and 2-variable statistics, linear regression test statistics, chi-square test statistics, binomial distribution—plus TVM (time value of money) for loans, leasing and savings.
- **College math functions**—square, exponential, square root, reciprocal, natural log and antilog, pi, percent, percent change, absolute value, integer part, round.
- **Trigonometry**—sine, cosine, tangent, arc sine, arc cosine, arc tangent, degrees/radians/grads.
- **Keystroke programming**—16 user labels, subroutines, two conditional tests, branching, 10 storage registers, 99 program steps.

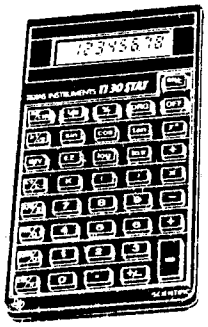
You'll have built-in programs for hypothesis testing and confidence intervals using one or two variables, plus all essential functions, and you can program it yourself when you wish. It's low priced and it's indispensable—order your HP 21S now.

Stock #HP21S [Statistical/Scientific Calculator] List $50 ..... $41.95

Calculator batteries, stands & cases — see pp 22-24

TI-30 STAT
Scientific Calculator

TEXAS INSTRUMENTS



New — with algebraic logic and statistics — a BEST BUY for learning to calculate.

52 functions, including factorials, powers, roots, logs and trig in degrees, radians and grads; 1-variable statistics including mean, variance and standard deviation for both sample and population data. 4-key Constant, Memory retains numbers when unit is off.

Large LCD display with 8 digits or 5 digits and a 2-digit exponent. Automatic Power Down if no key is pressed for 15 minutes or so. Comes with Easy Reference Guide which fits into nice blue wallet. Battery included.

Stock #TI30 [STAT-SCI Calculator] List $16 ..... $12.95

We guarantee everything we sell. You may return it to us in new condition within two weeks for a full refund, no questions asked.

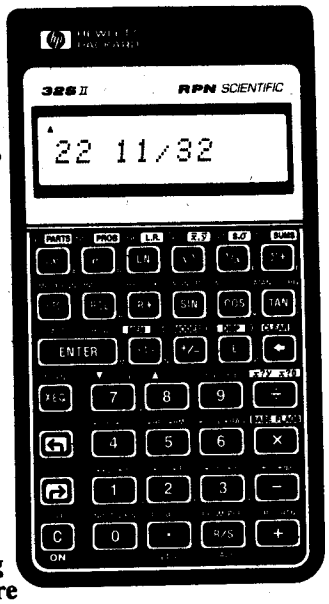
Scientific Calculators

HP 32SII

- Algebraic HP Solve Application
- Algebraic Equation Entry/Evaluation
- Unit Conversions
- Fractions

Still with full RPN
Still only $56.95

HEWLETT PACKARD



- Real Programmability
- Real HP RPN

New 'Algebrized' Model

- ☐ Over 180 functions, including all from HP 11C
- ☐ 2-variable statistics, correlation and regression, with weighting
- ☐ Probability: factorials, permutations, combinations
- ☐ Base conversions: decimal/hex/octal/binary
- ☐ Polar/rectangular; decimal hours/hours-min-sec
- ☐ Root finder, SOLVE for any variable

- Numeric Integration
- Random Numbers
- Complex Number Functions
- HP EQUATION SOLVER—solutions without programming
- RPN Data Entry—quick and sure
- Menus and Softkeys—alpha variables and messages
- Modern vertical design with the Sleek Efficiency of a New German Car

There's no guesswork with the HP 32SII—prompts, menu labels, and short messages help you know where you are every step of the way.

Enter keystrokes as a program—there are 390 bytes of memory and 26 storage registers—no keystrokes to learn since it's plain English (4 flags, 26 labels, 8 tests, indirect addressing—the works).

Playing out 'what-if' situations is simple with the HP 32SII. Just set up your equation, then solve for any variable. You key in the equation only once. When the situation changes, simply enter the new values for your changed variables. You get the answer—based on the new information—with little effort.

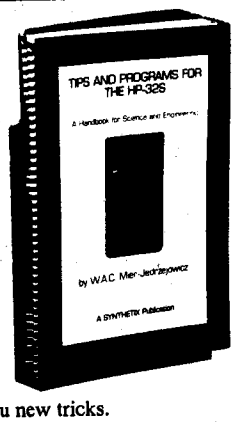
Manual, batteries, soft case included. 1 yr warranty.

Stock #HP32SII [Scientific Calculator] List $70.....$56.95

Calculator batteries, stands & cases— see pp 22-24

Tips and Programs for the HP 32S

by
W.A.C. Mier-Jedrzejowicz



Your pocket rocket to skill and success with your HP 32S.

You start from GO, but there's also a quick-start for RPN-users. By Chapter 2 you'll do short programs that you may use in college courses. Then you'll learn how to make and use larger programs that add extra power to the HP 32S statistics and integration functions.

Lots of examples with keystroke sequences and readouts to show you just how and to teach you new tricks.

Stock #2014, HP 32S Tips & Programs, 81p spiralbound.....$7.95

Step-by-Step Solutions Book

HEWLETT PACKARD

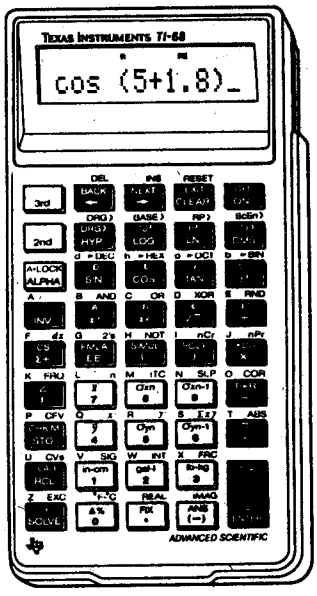
Hewlett-Packard's step-by-step Solutions Book covers useful routines specific to engineering—they will help you set up applications the way you want them.

Stock #628, Engineering Applications, 108p.....$9.95

TI-68
Advanced Scientific Calculator

For almost two years, Texas Instruments asked thousands of technical students what they needed, and interviewed their professors. In addition, TI studied the calculator usage of its own technical staff. Then they fed the data into a computer to redesign the scientific calculator's functions and features to fit your needs. The result is the perfect machine for college technical students—the all new TI-68!

TEXAS INSTRUMENTS



- 254 Most Needed Functions for Math, Science and Engineering
- Simultaneous Equations
- Complex Numbers

- ▸ **Solve up to 5 simultaneous equations**—with real or complex coefficients.
- ▸ **Evaluate 40 complex functions**—arithmetic to advanced trig—polar or rectangular form.
- ▸ **Recall, check, edit your last equation.**
- ▸ **Store up to 36 values**—with alpha numeric names you define.
- ▸ **Program up to 12 formulas you define**—up to 440 program steps.
- ▸ **Integrate your formulas on an interval**—uses Simpson's rule.
- ▸ **Calculate roots of quadratic, cubic, quartic polynomials**—with real or complex coefficients or roots.
- ▸ **Do 1- and 2-variable statistics**—including linear regression, trend analysis.
- ▸ **Make number-base conversions and calculations**—to/from/in decimal, hexadecimal, octal and binary—plus Boolean logic.
- ▸ **Convert polar/rectangular, English/Metric and deg/radians/grads.**

12-character alphanumeric display scrolls to display 80-character formulas. Constant Memory. Automatic Power Down.

Includes comprehensive Guidebook with step-by-step examples, Quick Reference Card for handy summary, unique rigid sliding case; 1-year warranty.

Stock #TI68 [Advanced Sci Calculator] List $65.....$49.95

Read our mail from California—

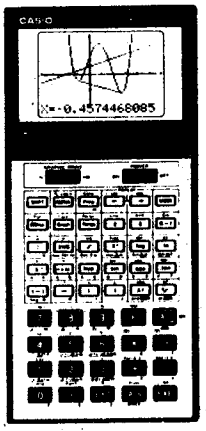
I was astonished at the rapidity and efficiency of your organization. I received my TI-95 Procalc before I thought the order could have even been delivered to you. I am more than pleased with your service and will buy no merchandise you offer from anyone else. In addition, I am recommending your company to all of my compeers. Further, I am sending along another order. Than you so much for your effort.
Henry C. Kepler, Bakersfield

Scientific Calculators

The Nat'l Council of Teachers of Math recommends that ALL students use calculators

Casio Graphic Computer fx-7000GA, fx-7700G, fx-8000G and fx-8500G for Science and Business

Now with hi-contrast LCD



- ☐ analyze data or formulas with graphic clarity
- ☐ plot trends and analyze characteristics
- ☐ graphically compare values, with ZOOM
- ☐ New! Nothing like it before

192 usual functions including Scientific and 2-Variable Statistical ones, Logical Operations and Base Conversions/Calculations. Perfect entry system, including ALPHA—check back replay function.

Graphic functions including Graph Composition, Trace, Plot, Line, Enlargement/Reduction, Coordinate Range Designation, Overwrite, Statistical Graph.

Up to 422 Programming Steps or 78 Memories.

Comes complete with manual, three CR2032 batteries, Applications Book.

Power-graphic fx-7700G has up to 4164 steps.

Advanced fx-8000G has File Editor Function added—for data, constants, formulae, theorems, telephone numbers, price lists...1917 steps of you-name-it.

Top-of-the-line fx-8500G has memory, memory, memory—6566 steps or 820 data memories.

Optional FA-80 Interface allows connection of a Centronics printer or plotter or cassette tape memory to your fx-8000G or 8500G (for programs, files, graphs, etc.).

Stock #FX7000GA [Graphic Computer] List $90.....$74.95
Stock #FX7700G [Power-Graphic Cmptr] List $110.....$92.95
Stock #FX8000G [Adv Graphic Comp] $120.....$94.95
Stock #FX8500G [Mega Graphics] List $150.....$124.95
Stock #FA80 [Printer Interface for fx-8000/8500G].....$65.95

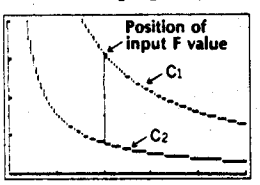
Calculator batteries, stands, cases and OH projector models: see pp 22-24

Graphic Scientific Computers Applications Book

by Casio

Teach your fx-7000/fx-8000G to sing and dance! Here's a bookful of applications from Casio, some useful, some impressive, some fun. Each has an example, the theory and a program.

```
F [kH] = ?
200
Q = ?
1
R1 = R2 [K] = ?
```

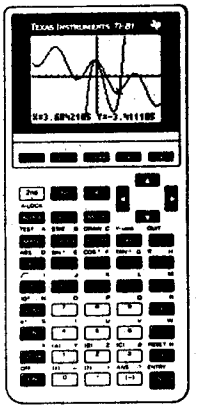


Ten from math, including Lissajous figures, Fourier series and cubic equations. Ten from statistics, incuding Poisson distributions and xR control charts. Ten from electronics, including RLC series circuit resonance and transistor static characteristics.

Stock #fx555, Applications Book, 125p softbound.....$6.95

TI-81 Graphics Calculator

TEXAS INSTRUMENTS



Superior interactive graphing features—so you'll have the power to easily analyze the behavior of several functions at once and solve equations graphically.

Pull-down display menus—so you'll quickly access more than 300 advanced scientific functions.

8 line by 16 character display—so you'll view the entire expression as you enter it, as well as see the results you've calculated.

Big Constant Memory—so you can save up to 37 programs totalling 2400 bytes, using up to 27 stored variables.

Manual, protective slide-on cover, batteries included; 1 year warranty.

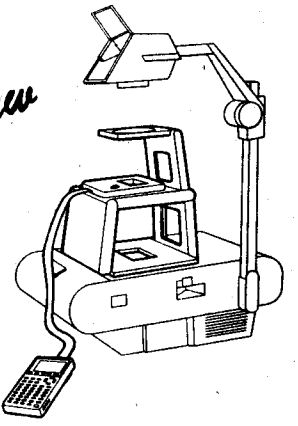
Stock #TI81 [Graphics Scientific Calculator] List $110.....$89.95

In a hurry? Use our UPS 2ND DAY AIR. A Big Hurry? UPS OVERNITE AIR!

TI-81 ViewScreen

TEXAS INSTRUMENTS

Brand New



All features and functions of the TI-81 in a hand-held control unit that is connected by a 10-foot cable to its display unit which will fit on top of most any OH projector (not for high-intensity or reflective-type projectors).

Package includes Overhead Enlarger, Thermal Absorption Device, Guidebook, 4 AAA batteries and a rigid case for it all.

Stock #2328 [TI-81 ViewScreen] List $400.....$315

HP 15C Advanced Functions Handbook

HEWLETT PACKARD

Continues where the *Owner's Handbook* leaves off—tells you how your 15C performs its advanced functions and how to interpret their results. There's a whole section on using SOLVE effectively; another that shows you just how to work with the Numerical Integration key-function.

A third section covers calculation in the Complex Mode and shows you how to use SOLVE and to integrate complex functions with example applications. Section 4 fully describes Matrix Operations, with some application programs (like least-squares and eigenvalues/vectors) that you might use later.

The appendix thoughtfully surveys accuracy and error analysis.

Stock #90011, 15C Adv Functions, 221p softbound.....$14.95

We guarantee everything we sell. You may return it to us in new condition within 30 days for a full refund, no questions asked.

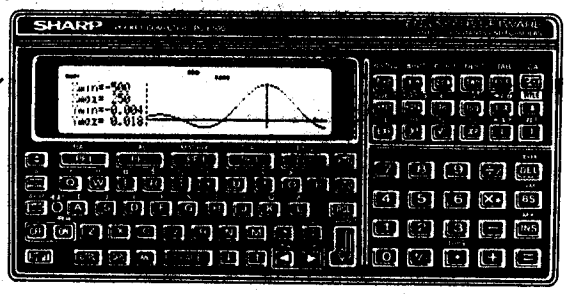
There is no reading more easy, more fascinating, more enjoyable or more appropriate than a catalog.

Scientific Calculators

PC-E500
Scientific Pocket Computer
The most popular scientific calculator in Japan now available in the USA!

Raw Speed
Brute Power

Sharp



- Built-in Engineer Software—1101 functions
- Keystroke-programmable—Menus and Softkeys
- Built-in BASIC—10 or 20-digit precision
- Expandable to 96K
- Upward compatibility with many previous Sharp BASIC machines
- Wide Screen with Full Graphics Display—240 x 32 dots
- 8-bit CMOS CPU—exceptionally fast executions
- 32K RAM memory

Built-in comprehensive software for math, science, engineering, and statistics (124 constants, 744 formulas and data, 233 scientific math functions)—plus you can store up to 999 of your own expressions or constants.
Full set of scientific-calculator functions, including angle and time , coordinate and ***hex/decimal*** conversions and calculations.
Statistical-calculator functions include regression and ***distributions*** (normal, t, chi-square, F), ***gamma function***.
3 Integer functions: prime factors, gcd and lcm.
3 Solve functions: cubic, Newton's and bisection methods.
3 Integrate functions: Romberg's, Runge-Kutta and Lagrange's Methods.
Formulas: factorization, trig function, ***indefinite integrals***, Greek alphabet.
Graphics: functions and data, plus final area of figure.
Physics: constants, unit conversions, equations of motion.
Chemistry: periodic table, outer electron, stable isotope.
Earth Science: Meteorology, solar/planetary constant.
Biology: amino acid formulas, including ***structural diagrams***.
Electronics: ***complex number arithmetic***, electrical formulas, electric and magnetic fields, ***Laplace Transform***.
Mechanical Engineering formulas.
Matrix arithmetic including transpose and ***matrix inverse***.

ALL this, plus you'll have powerful ***BASIC Language*** commands, including 60 math functions, many options, and management of floppy disk, RAM files and cassette—all built into a whopping ***256K ROM***.

Options: Accepts one plug-in RAM card, has 11-pin connector for Cassette Interface (use with standard recorder), or battery-operated Printer. Also has 15-pin ***Serial I/O Interface for data transfer to/from a PC*** (CE130T).

Lightweight, 250g, and small, 220W x 100D x 14H mm—that's only 9/16" thick, so it really fits into a largish shirt pocket!

Comes with comprehensive 360p manual, 4 AAA batts, hard protective cover.

Stock #PCE500 [Sharp Pocket Computer] List $229 ..... $189.95
Stock #CE126P [Thermal Printer with I/F, batt] List $95 ..... $84.95
Stock #CE130T [Serial Interface] List $109 ..... $89.95
Stock #CE2H64M [64K RAM Card] $169.95
Stock #CE2H32M [32K RAM Card] $99.95

Calculator batteries, stands & cases—see pp 22-24

Sharp BASIC
Stock #2039, Sharp BASIC, 181p softbound $11.95

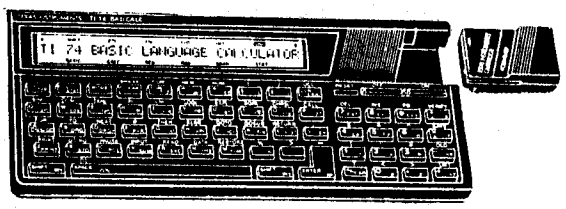
Cassette Interface Cable

Store and retrieve your PC-E500 programs on your good quality cassette tape recorder. Plug one end into the PC-E500 and the other end into the MIC and EAR jacks of your cassette recorder.

Stock #CE124 [Cassette Cable] $39.95

TI-74 BASICALC
makes short work of homework.

TEXAS INSTRUMENTS



TI's BASIC-language programmable is the only calculator that combines so much power with so much ease of use.

Easy . . . because it's powerful
Finally, here's a calculator that makes those long, tough calculations a lot easier. Packed into the compact TI-74 BASICALC are 113 BASIC commands. Along with 70 scientific functions, and 8K of RAM expandable with optional cartridge.

Easy . . . because it's flexible
Your TI-74 BASICALC is a BASIC-language programmable calculator that lets you customize your calculations to your special needs. It's a full-function scientific calculator, too, and there are 10 keys you can define yourself for simple, repetitive calculations.

Optional, plug-in software cartridges—Math, Statistics, Finance, and PASCAL programming—boost your problem-solving capability. You can add a 24 column portable printer, cassette recorder, or both.

Easy . . . because it's friendly
Calculator entries are as natural as writing them down—no reverse Polish notation. The typewriter-like keyboard has large, positive-action keys to prevent double entries. Built-in command keys, and a 31-character LCD display.

And it's easy to own
Included are protective case, batteries, quick reference card, and comprehensive User's and Programming Guides. Order the BASICALC today—because you want high grades—because homework shouldn't take up all your time!

Stock #TI74 [BASICALC] List $135 ..... $99.95
Stock #930 (Chemical Eng Cartridge) List $50 ..... $39.95
Stock #871 (Finance Cartridge) List $50 ..... $39.95
Stock #695 [8K RAM Cartridge] List $50 ..... $39.95
Stock #PC324 [Portable Printer] List $115 ..... $89.95
Stock #AC9201 [Adapter] List $19 ..... $16.95
Stock #TP324 [Paper] List $6 ..... $4.95
Stock #CI7 [Cassette Interface] List $35 ..... $26.95
Stock #PA201 [AC Interface] $6.95
Stock #999, Technical Data Manual, 30p combbound $9.95

PC-Interface Cable for TI 74/95
Stock #2153 [PC-Interface Cable, 5¼" disk] $54.95

HPHH = "High-Powered HandHelds" International Electronic Conference

The international FidoNet computer bulletin board system, "gatewayed" to the Usenet academic and corporate network, carries a conference (or "echo"), with contributors world-wide, dedicated to High Powered HandHelds, particularly HP.

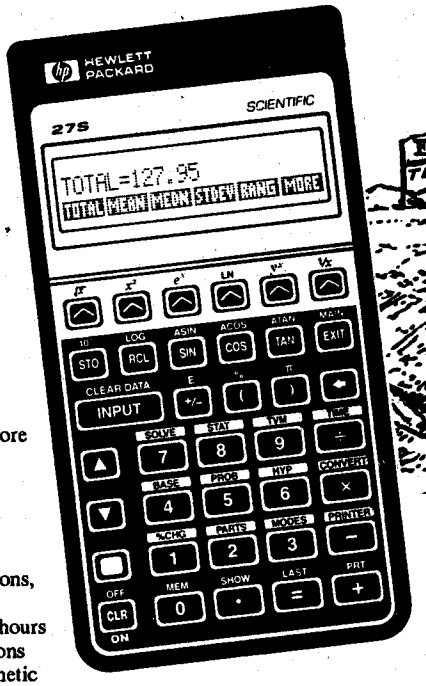
Anyone with a computer and modem may join the conference, in which many new programs and techniques are posted and discussed.

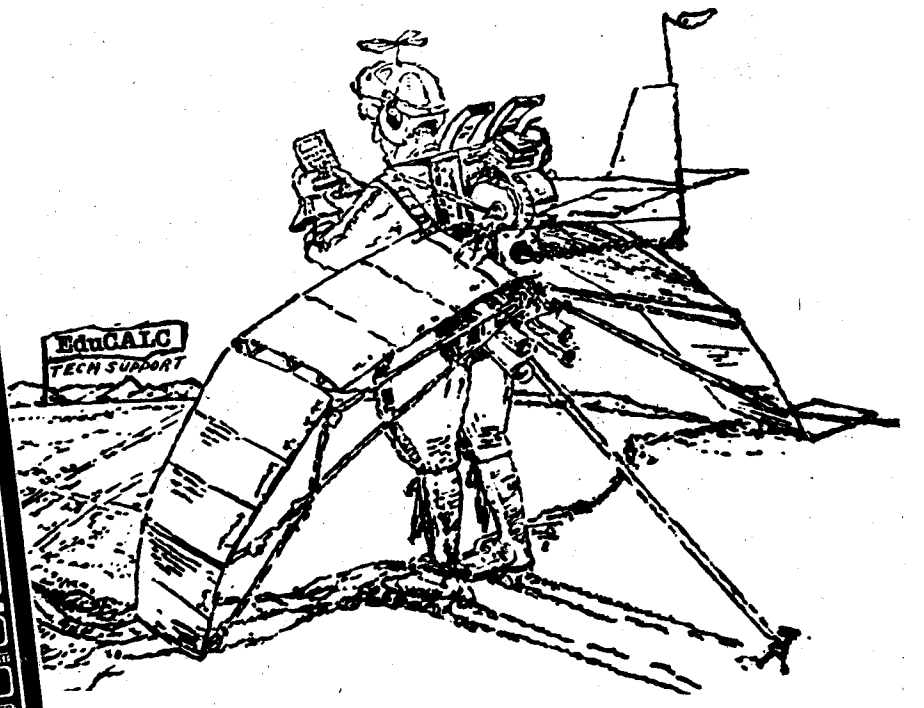
For information on how to link in, contact (up to 2400 baud, 8N1):
in the Americas: Terrapin Station BBS (1:115/678) +(708)657-9543
in Europe & the Middle East: No Zone BBS (2:253/159) +44-81-905-1245
in the Pacific & Asia: Sentry BBS (3:711/401) +61-2-428-4687

HP 27S Sci/Business Calculator

HP 27S

HEWLETT PACKARD





Algebraic

☐**Statistics**
Mean, standard deviation
(1 or 2 variables)
Number lists; edit, sort, store
Forecasting, curve fitting

☐**Math**
Logs, exponentials,
trig, hyperbolics
Permutations, combinations,
factorials
Conversions for angles, hours
Coordinate transformations
Base conversions, arithmetic

☐**Finance**
Time value of money
Amortization with table printout
Percent change

☐**Time and Dates**
Clock, calendar
Appointments and alarms

☐**Science and Business, both in one unique calculator**
☐**for Technical Students or Professionals in Management Positions**
☐**Algebraic Entry System with Menus and Softkeys for Easy-to-Use Power**
☐**State-of-the-art Vertical Design with one-piece keyboard/case (robot assembled) and the sleek lines of a new German car**
☐**HP SOLVE—enter custom equations without programming**
☐**Clock, Calendar and InfraRed Printer interface**

With one powerful calculator, you can handle the technical aspects of your profession, as well as the financial analyses of your position. Use logarithms, hyperbolics, trigonometry, base conversions and arithmetic. Then move easily into time value of money, amortization, and calculations involving days and dates.

You'll find yourself as well prepared for a session with the controller as with the R & D team. An essential tool for the technical manager.

Statistics, forecasting and curve fitting have never been so easy. Your data is kept in lists so it's easy to review and edit anytime the situation changes. And you can store any number of lists in the 6.7K bytes of memory available to you. Work with one- or two-variable statistics, four different models for curve fitting; keep running totals as you go.

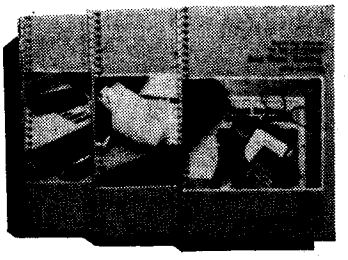
Any excuses for being late go right out the window with up to 10 alarms to remind you of pending appointments. You'll be sure of being in the right place at the right time.

No more conversion tables, either. Push one key to switch between any of four number bases, then go on with your arithmetic operations. Manual, batteries, soft case included; 1 yr warranty.

Stock #HP27S [Sci/Business Calculator] List $80..... $69.95

Step-by-Step Solution Books for the HP 27S

HEWLETT PACKARD



Books for Business

Stock #544, Real Estate, Banking, Leasing.....$9.95
Stock #545, Business, Finance, Accounting.....$9.95
Stock #546, Marketing, Sales.....$9.95
Stock #547, Personal Invest, Tax Plan.....$9.95

Calculator batteries, stands & cases—see pp 22-24
InfraRed Printer—see p 46

An Easy Course in Using the HP 27S

GRAPEVINE PUBLICATIONS, INC.

A clear, straightforward explanation of your 27S. It's written in Grapevine's friendly style, so it's easy to understand, right from the first.

This Easy Course starts with the basics, with lessons on keyboard operation, arithmetic and how to move through a menu. Next it explains the built-in equation-solver (including its 'smart' features). Then you'll put it all together in a series of commonly encountered, practical problems (with complete solutions).

You'll also get extensive training in personal finance using the TVM (Time Value of Money) menu, including concepts and methods of financial analysis.

Includes clear diagrams and explicit examples.

Stock #542, 27S Easy Course, List $23 ..... $21.95

Advanced Technical Solutions using HP Solve

HEWLETT PACKARD

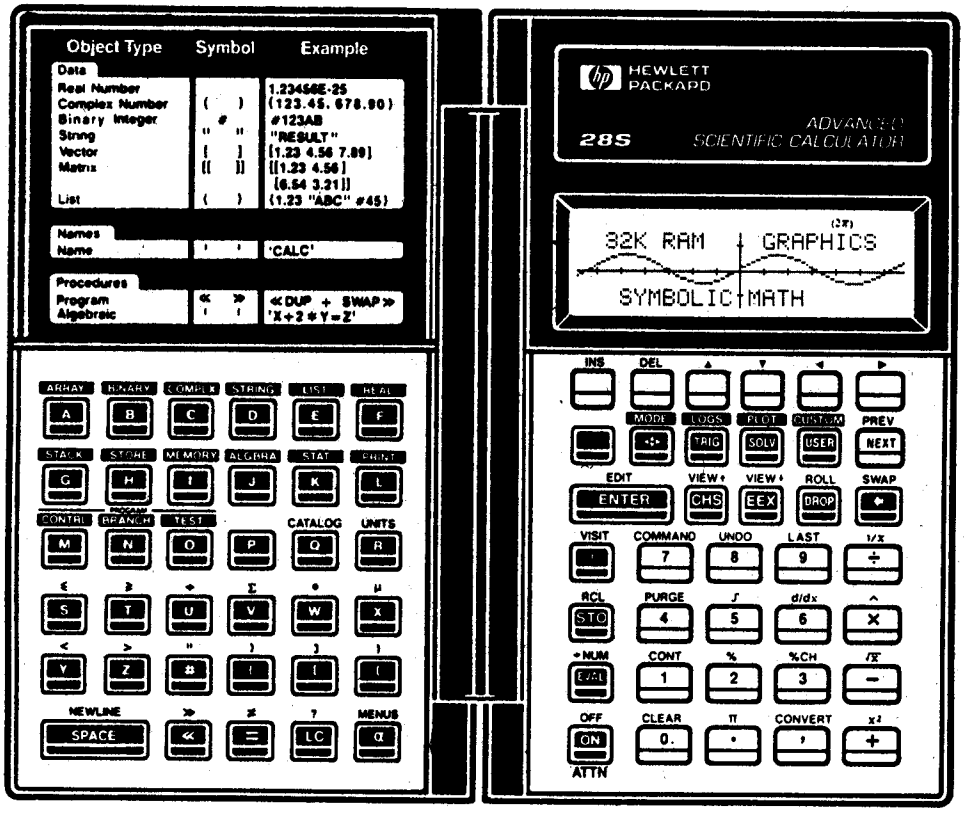
Learn 2 new SOLVE functions, perform numerical differentiation and integration, carry out complex number functions and vector operations, find GCDs and LCMs, perform geometry functions, series expansions, ... operations, factors and primes, and coordinate transformations.

Stock #548, Technical Applications, 103p spiralbound..... $9.95

HP 28S Scientific Calculator

HEWLETT PACKARD

New Low Price



SEPARATE KEYBOARDS

ON-SCREEN Menus and SOFTKEYS

PROGRAMMABILITY

SYMBOLIC ALGEBRA, even SYMBOLIC CALCULUS

You'll have ON-SCREEN MENUS and SOFTKEYS, just like a PC—sensible access to hundreds of functions (128K ROM and 32K RAM!) and high-level problem solving. Gamma function, random numbers, . . .

Complex numbers, matrices, vectors, lists, and algebraic expressions can be viewed, edited, and then used in calculations just as easily as ordinary numbers. Dot and cross products, determinant, . . .

You can choose RPN LOGIC for calculations OR use the built-in ALGEBRAIC LOGIC—with RPN its 4-line display shows your stack OR you'll see your equation displayed just as you would write it. You choose.

You'll do no programming to get solutions, either—it will solve for any unknown variable anywhere in your equation.

It will convert between different unit systems, too. The values of 120 units are built-in, and you can add your own. Are you ready for all this right now?

You'll use SEPARATE KEYBOARDS, the right hand one for NUMBERS and the left for LETTERS. Later, you can fold it to pop into your shirt pocket.

You can plot graphs of your functions, even two at a time. Then place the cursor near where the graphs cross and press a key to calculate the x-value of the crossing, correct to 12 digits. We were amazed.

Scatter plots of your statistical data are easy too. Imagine showing all this to your colleagues!

Plotting. Plot mathematical functions and statistical data; set plot scales, axes, and center; display graphics.

Statistics. Single- or multi-variable statistics: summation, deletion, mean, standard deviation, total, maximum, minimum, variance, covariance, correlation. Linear regression and predicted value. Normal, Students t, F, and Chi-square distributions.

A major leap in technology—you'll do SYMBOLIC ALGEBRA, even SYMBOLIC CALCULUS. You'll manipulate unknowns and letters as well as numbers, even differentiate functions to get their derivative functions. This is the first small machine capable of doing symbolic mathematics, and it can be yours right now.

Symbolic Algebra. All real and complex number functions; expand, collect terms; expression editor; subexpression recall and substitution, symbolic solve; quadratic equations.

Calculus. Symbolic differentiation of arbitrary expressions; symbolic integration of polynomials; numerical integration of arbitrary expressions; Taylor series.

Programmability—You can use all of the built-in functions with your own menus and softkeys, plus sophisticated utilities.

Binary Integer Operations. Decimal, octal, hexadecimal, and binary bases; arithmetic; variable wordsize; bit shift and rotate, byte shift and rotate, arithmetic shift; logical operators; floating-point/integer conversion.

Programming Features. User-defined functions, local variables, indefinite nesting and recursion, IF . . . THEN . . . ELSE, FOR . . .NEXT, DO . . . UNTIL, WHILE . . . REPEAT; halt, continue, abort, single-step, pause, read key, beep, display, error message, error number; set/clear/test 64 user flags; conditionals, logical operators; object type.

New Features for the 28S—hierarchical directories for your own custom menus and input menus. Program support includes automatic spacing of arithmetic operators, program formatting, and error messages which identify commands. Number list arguments are automatically evaluated and arrays and lists can be symbolically addressed.

Additional argument types. POS, +, AND, OR, NOT, XOR, CROSS, PRVAR, RND.

But you can't see the best part—Your HP 28S comes with a built-in InfraRed Printer Interface. This means no wires or cables to your portable thermal printer—just point your 28S at it and press a key for an instant record. Get your printer now or later—your choice.

It comes fully supported with its 336 page *Owners Manual* and its 352 page *Reference Manual* (which has a complete dictionary of all functions), and batteries. 1 yr warranty.

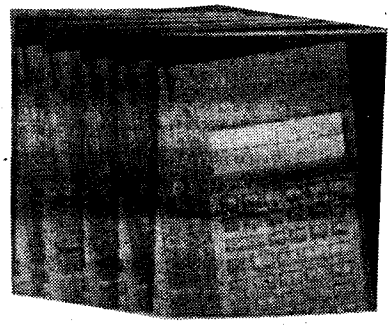
Stock #HP28S [Sci/Professional Calculator] List $195..... $149.95

Calculator batteries, stands & cases and OH projector models—see pp 22-24
InfraRed Printer—see p 46

HP 28S Scientific Calculator

Calculator Enhancements —
workbooks that use your graphing calculator to help study university math

Clemson University Calculator Project



Here's how your friendly calculator can help you learn math—with programs, tips, tricks, explanations and exercises.

These are Preliminary Editions, for 5 courses

- Single-Variable Calculus
- Introductory Statistics
- Multivariate Calculus
- Linear Algebra
- Differential Equations

All have programs written for the HP 28S (except for the Sharp EL-5200, Stock #2441, in Statistics), but most of them will run on the HP 48 as well, just as they stand. Some instructions are given for editing programs to take advantage of the HP 48's powers.

Stock #2438, Enhance Single Var Calc, 99p softbound.....$9.95
Stock #2439, Enhance Multivariate Calc, 94p softbound.....$9.95
Stock #2440, Enhance Differential Eqns, 105p softbound.....$9.95
Stock #2441, Enhance Intro Statistics, 160p softbound.....$9.95
Stock #2442, Enhance Linear Algebra, 130p softbound.....$9.95

HP 28 Pocket Book
by James Donnelly

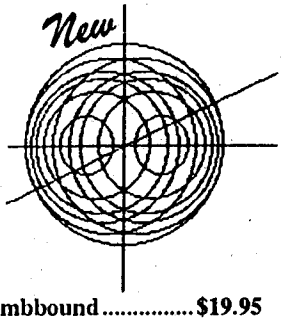
All the help and reference you'll want to have along with you—fits right in your instrument's case.

Has lists of object types, escape sequences, reserved names, unit prefixes, errors, flags, commands, much more.

Stock #2061, 28 Pocket Guide, 40p softbound.....$6.95

Advanced Graphing for the HP 28S
by Brian Maguire

New



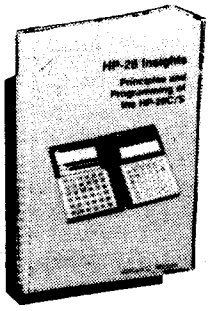
Don't get this book until you understand the manual!

But if you want your HP 28S to draw fractals, 3-D graphs or animated displays, you'll get plenty of how-to information and explicit program listings here.

Covers simpler stuff, too, like polar graphs and drawing shapes. Gives lots of examples.

Stock #2247, Advanced Graphing, 304p combbound.....$19.95

HP 28 Insights
by William Wickes



Guide to Understanding, Applying and Programming the HP 28C and HP 28S

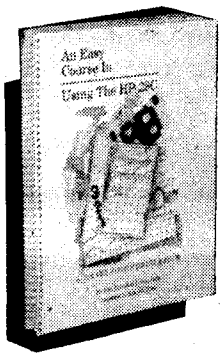
If you want to do serious programming on the HP 28, you'll find this indispensable. It contains over 100 programs, with more than half the book applicable to programming.

Introductory chapters cover History, RPN, Objects and Execution, the Stack, Variables, and Problem Solving. Next you'll learn about the Solver, User-Defined Functions and Symbolic Math. Then you go to work on Program Development, Arrays and Lists, and Plotting.

Stock #616, HP 28 Insights, 340p wirebound.....$24.95

An Easy Course Using the HP 28S

GRAPEVINE PUBLICATIONS, INC.



Looking for a clear, straightforward explanation of the powerful HP 28S? This is your book! It carefully inspects all the wonderful features of this machine, giving you the pictures and practice you'll need to make the HP 28S your favorite calculating tool.

First, several chapters bring you up to speed on the mechanics of operation, and show you exactly which keys you need to control and command the display, the stack, and the menus. You'll get lots of practice problems and explanations designed to train your fingers for action.

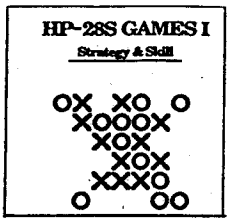
Then you go straight to the heart of the machine, explore all the different information 'objects' and how you can manipulate them, combine them, name them and (best of all) think about them. You'll see how HP's well-known stack-oriented arithmetic becomes the engine behind all this math power, and soon you'll be harnessing it for yourself!

In brief separate discussions, this Easy Course touches upon specialized topics such as symbolic algebra and calculus, plotting, and programming.

It's all in Grapevine's familiar 'Easy Course' format, with Robert Bloch's illustrations—a book designed to let you work at your own speed (and your own speed will soon amaze you)! It's always a pleasant surprise that learning about a calculator can be this satisfying—it can be, when the right explanations transform a mysterious machine into a friendly and powerful tool.

Stock #532D, HP 28S Easy Course, List $23.....$21.95

HP 28S Games I Strategy & Skill
by Hans Glitsch

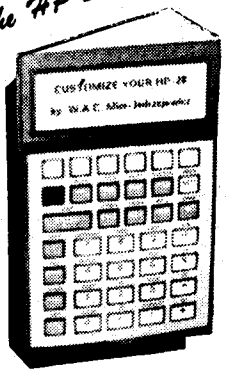


Line-by-line programs for 6 games — Cannon, Concentration, Connect 5, HP-Trek, Numbers Game, Pong and Solo Pong.

Stock #2287, HP 28S Games I, 44p spiral bound.....$9.95

Customize your HP 28 2nd edn
by Wlodek Mier-Jedrzejowicz

Revised to include the HP 28S



Make your 28 behave exactly the way you want it to. Here you get information and ideas that are not in the manuals.

The first 2 chapters show you how to do some fairly simple things, like setting modes and creating variables. Chapter 3 gives ways to use the special instruction SYSEVAL.

You'll learn about **machine-language programming** in Chapter 4—so you can really take control. A final chapter shows you exactly how to customize by **modifying the hardware.** Appendices discuss differences between HP 28 models.

Now you'll be able to make your HP 28 act more like a FORTH computer or else more like an HP 41.

Stock #557A, Customize your HP 28, 100p softbound.....$16.95

Advanced Circuit Analysis with the HP 28S
by Robert Boyd

Programs with listings, examples and discussions show you **how to analyze circuits with the full power of your HP 28S.**

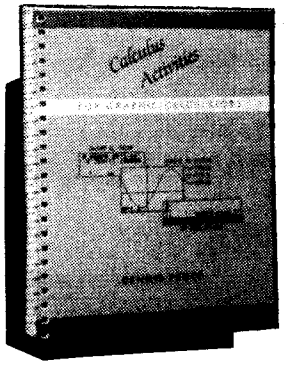
Boyd's unique new method handles higher order or non-linear problems and circuits with dependent sources, even when the coefficient matrices are not symmetric. Some of the programs here will work on the HP 42S, the HP 41/Advantage Pac and HP 71/Math Pac, as well as other computers that handle complex matrices with double precision.

Stock #2063S, 28 Circuit Analysis, 47p sftbnd.....$9.95

HP 28S Scientific Calculator

Calculus Activities for Graphic Calculators

by Dennis Pence



Get solid training, help and programs for graphics, and learn a lot of calculus doing it!

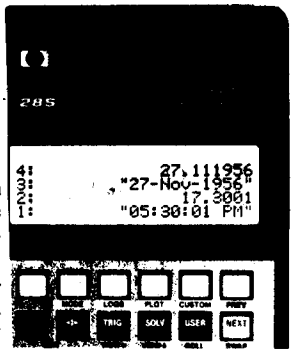
Calculus is all here, including differential equations, plus a rare goodie: Bézier curves, used in CAD/CAM, that enable you to draw *script* letters.

All programs given for Sharp EL-5200, Casio fx-7000/7500/8000/8500G and HP 28S/28C.

Stock #2401, Calculus for Graphic Calcs, 266p spiralbound...$21.95

HP 28S Time and Date Functions

by Kevin Jessup



Be punctual! Here they are—all the time, date and alarm functions you've missed on your HP 28S. 35 programs and utilities are described in this manual, with their functions, stack inputs and resulting outputs.

Just key them in—you'll need an understanding of HP 28S functions and program entry, but NO programming experience or math expertise is required.

Stock #2175, Time & Date Functions, 25p notebound.....$9.95

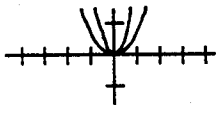
Precalculus Activities for the HP 28S

edited by Musser & Dick

You can graph both of the parabolas $y = x^2$ and $y = 3x^2$ at the same time

'X^2=3*X^2 ENTER PLOT

STEQ DRAW



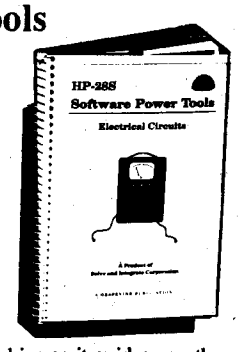
49 algebra, trig and pre-calculus activities, class-tested by O.S.U. and the Albany, Oregon, Public Schools.

Front of each activity sheet is a ready-to-use blackline master and the back has a complete solution key. Reference Section gives examples of needed keystroke sequences.

Stock #2198, 28S Precalculus Activities, combbound.....$18.95

HP 28S Software Power Tools Electrical Circuits

GRAPEVINE PUBLICATIONS, INC.



Analyze steady-state AC circuits with your HP 28S complex-matrix-crunching power!

Do mesh or nodal analysis, constant general network and ladders, build friendly, easy-to-edit descriptions of your circuits. Then vary the source frequencies and plot results, either right on your display or with an IR printer.

It's easy—this book teaches you about your machine as it guides you through its powerful software—every routine is explained, every piece of program is documented (including memory diagrams).

Stock #2117, 28S Electrical Circuits, 256p spiralbnd.....$17.95

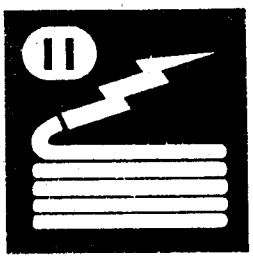
HP Step-by-Step Books for the HP 28S and HP 28C

Let experts help you set up your calculations so you can work with them most easily. These professional references include practical routines and tips for getting the most from the Built-in Menus as well as setting up Personal Menus for your specific profession. Order the ones that fit your work:

Stock #603, Algebra & College Math 90101.....$9.95
Stock #604, Vectors & Matrices 90105.....$9.95
Stock #605, Calculus 90102.....$9.95
Stock #606, Probability & Stat 90104.....$9.95
Stock #607, Math Applications 90111.....$9.95

HP 28S Engineering Applications

by Robert Boyd

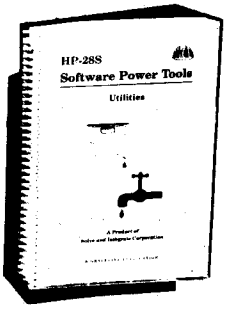


Straight forward and practical problem solutions such as FFT's. Kalman Filtering, Spline Interpolation, Worst Case Analysis, Correlation & Autocorrelation and State Space — 21 subjects in all. Program listings, examples and discussions included.

Stock #2219, Engineering Applications, 98p combbound $10.95

HP 28S Software Power Tools: Utilities

from Grapevine



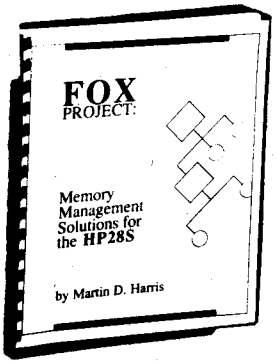
A great collection of advice, organization techniques and sound programming principles. You'll be glad you got this book early on—the good habits you develop now will be worth many times its price! You'll learn about directory manipulation, program development, printer manipulation, sorting, display formatting graphics, and more.

Stock #2186, 28S Power Tools, 320p spiralbound.....$17.95

Recycle the already recycled—just remove the cover and this catalog is 100% recycled, 100% recyclable (as "newsprint").

Your Complete Solution to Memory Management on the HP 28S

by Martin Harris



Get organized — Recall, Store, Purge, Locate and Rename both variables and directories with ease. Safety features protect user memory and the stack under non-ideal conditions (like bad arguments).

Called *Fox Project*, this book has program descriptions, diagrams, program listings and examples. All programs together take up only 2K, and you can do with less space if needed.

Stock #2515, Fox Project, 50p combbound.....$10.95

HP 42S Scientific Calculator

Programming Examples and Techniques for the HP 42S

HEWLETT PACKARD

The serious programmer's option—examples to help you master many advanced uses of menus, labels, prompts and variables, so you can put them right to work in your own programs.

Lots of advanced techniques, too, so you can get the most out of your instrument's solver, integrator, matrix, statistics, plotting and graphics routines. Includes easy-to-load Time Value of Money routines that make it into a **menu-driven financial calculator!**

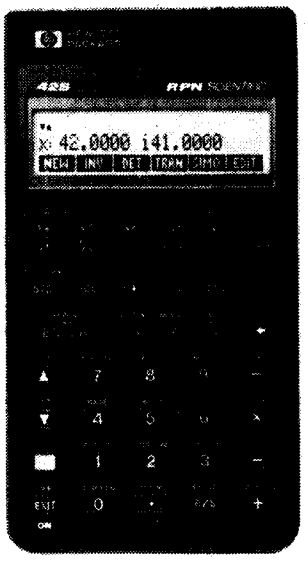
Stock #2065, Prgrmng Examples, 234p spiralbnd $9.95

The New World Standard

Engineered for the Engineer
SuperFast RPN Scientific

HEWLETT PACKARD

RPN



- **Shirt-pocket power**—more than 600 functions built into 64K ROM, 7.2K of user's RAM, 2 line×22 character display shows inputs or results right above English menus, prompts and label keys. 12 digit precision with exponents up to E499. Infrared signals to printer or PC. 5.6×3×0.5 inches thick, 5 oz.
- **Exceptional matrix entry and editing**—with more matrix and vector operations than any other calculator. They are fast—to enter and edit, fast to run.
- **Complex and real numbers**—work together and interchangeably. This is the only calculator that labels the complex element, so you won't need to keep track of it.
- **Solves, integrates, converts bases**—and it gives polar answers directly, without converting to rectangular mode first.
- **Statistics and forecasting**—with 4 curve fits and automatic best fit. 2-variable list and cumulative statistics with weighted mean.
- **Full HP 41CV program compatibility**—every one of the thousands that are available may be keyed in to run as-is in your new calculator, but up to 10 times faster! Of course, you can enhance these programs to use the powerful features of the HP 42S, like softkeys and menus, and the HP SmartCatalog will file them in order and scroll them for you at a keystroke.
- **Traditional HP reliability**—with gold-plated PC-boards and rigorous test procedures . . . high performance engineering that will serve you for years. 1 year warranty transfers if you sell it or give it away.

Stock #HP42S [RPN Scientific Calculator] List $120 ..... $89.95

Solution Books for your HP 42S
Step-by-step examples and programs

Stock #2016, Electrical Engineering $9.95
Stock #2015, Mechanical Engineering $9.95

HP 42S Quick Reference Guide
by Dex Smith

Super-concise summary that fits right in your instrument case—

- ▸using menus
- ▸base conversions
- ▸modes and flags
- ▸matrix operations
- ▸statistics
- ▸data types
- ▸simple programming
- ▸numerical integration
- ▸variables/registers
- ▸executing functions/programs
- ▸using variable menus
- ▸the solver

Stock #2064, 42 Quick Ref, 20p softbound $4.95

HP 42S Surveying Solutions

from DZign

- You'll like these FRIENDLY programs—written just for the surveyor.
- You'll access all of your HP 42S MEMORY and use all of its SPEED—with programs written just for it.

Point-storage traverse stores 200+ pairs of coordinates, handles sideshots and inverses and can interface to intersection solutions program. Run your traverse in any form—its all MENU-PROMPTED. Input is single-key, output can be azimuth or bearing.

Traverse adjustment by either COMPASS or TRANSIT method—also inverses between the points as it adjusts them for a complete listing of traverse.

Layout inversing for spraying in points .

No more decimal degrees—you add/sub/mult/divide or do trig functions in degrees/min/sec without converting.

Optional programs included for Coordinate Transformation, Predetermined Areas, Bearing/Azimuth and Azimuth/Bearing conversions.

You'll be able to dump your coordinate listings automatically, to an InfraRed printer (or to a PC via Hook-uP software).

Stock #2173, 42S Survey Solutions, 86p softbound $15.95

Surveyor's Vertical Curves
Programs for the HP 42S

Calculates CONTINUOUS vertical alignment without changing back and forth between Grade and Curve routines. Also calculates vertical intersections, symmetrical or asymmetrical curves. Solves for station when the elevation is known, or the station can be given, to calculate the elevation.

Stock #2222, HP42S Vertical Curves Programs, Booklet ... $7.95

Surveyor's EDM Slope-Staking *New*
Programs for the HP 42S

Set up anywhere near an alignment and slope stake it. Sets slope stakes from the remote instrument location directly. Includes a three-point resection program for finding the instrument's location by either station-offset or coordinates. All data needed to mark the stake is output (or may be stored), and there is a subroutine for setting the reference stake.

Stock #2223, HP42S EDM Slope-Staking Pgms, Booklet... $7.95

Stock #2229, Alignments & Offsets $7.95

Stock #2231, Topography $7.95

An Easy Course in Using the HP 42S

GRAPEVINE PUBLICATIONS, INC.

Straightforward help! Easy to understand—even the type is oversize. You'll start with the basics of your HP 42S and work your way up to some of the most complex features. An ample supply of examples, diagrams and layman's language will keep up your interest as well as your understanding.

Stock #2181, Easy Course/HP 42S, 384p spiralbound $21.95

Advanced Circuit Analysis with the HP 42S
by Robert Boyd

Programs with listings, examples and discussions show you **how to analyze circuits with the full power of your HP 42S.**

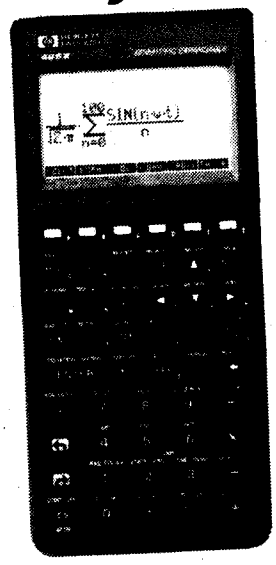
Boyd's unique new method handles higher order or non-linear problems and circuits with dependent sources, even when the coefficient matrixes are not symmetric. Some of the programs here will work on the HP 28S, the HP 41/Advantage Pac and HP 71/Math Pac, as well as other computers that handle complex matrices with double precision.

Stock #2146, 42S Circuit Analysis, 57p softbound $9.95

Calculator batteries, stands & cases—pp 22-24
InfraRed Printer—see page 46

HP 48SX Scientific Expandable

Here is exactly how the brand new HP 48SX will upgrade your professional life 7 ways —

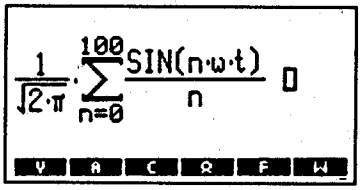


1. You'll stand out. It has a distinctive size (3.2 x 7.1 in.), more keys (49) than any keyboard before and a wonderful, big LCD—so you'll be recognized the minute you walk in with it.

Then you'll fire it up and use HP Equation Writer to enter a function in the same form as it appears in a book—sigma notation, integral signs, radicals, fractions, . . .

For an encore, you'll plot several functions, then interact graphically—zoom in, find roots, intersections, slopes, local extremes, derivatives, areas, . . . If that isn't enough for them, you can draw boxes and circles on the graph to emphasize your work, or do a polar or a parametric plot.

This is the first calculator that enters equations in textbook style, and it's the first that does all these graphics. ***Will that get their attention?***

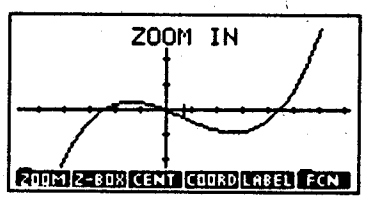


2. You'll have assurance. Solid power, right in your hand. You'll have the standard keys (SIN, LOG, √x, . . .) on this traditional keyboard, for quick hand calculations.

But, underneath, you'll have a giant 256K ROM of power, with 2,100 functions that you'll access with 59 user-friendly menus. It's customizable, too—you'll have 32K of RAM to store your own personalized menus in.

The X in SX means Expandable—it has two internal card slots. You'll be able to customize your HP 48SX with optional plug-in ROM cards, from HP and from others, for more math power, or statistics, or surveying, or . . . Also, you can increase your memory capacity with optional plug-in cards that add 32K or even a gigantic 128K of RAM.

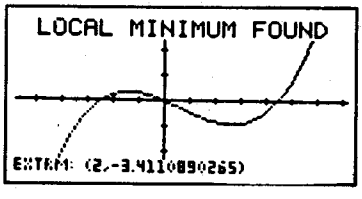
When you have all that, and know it will go on working with legendary Hewlett-Packard reliability, ***won't you have assurance?***



3. You'll communicate. You'll have 2-way InfraRed, so you can share programs and data with another HP 48SX. You can also squirt programs, data and graphics via InfraRed to an optional portable printer.

Kermit is built right into the HP 48SX so you can also wire-up to your PC or Macintosh with an optional Serial Interface Kit—then you can generate high-quality printouts and use your computer's disk drive to store data and programs. You can use the computer's keyboard to program your calculator, too, and you can operate all the HP 48SX routines like an excellent number-crunching software package on your computer (you save the software cost).

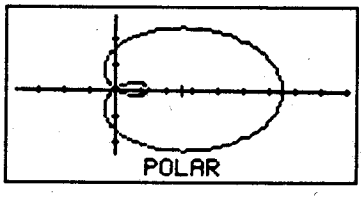
You'll have the world's best interactive calculator graphics. You'll have a beautifully-planned keyboard with well-engineered tactile feedback. ***Isn't all this the kind of I/O power you've needed?***



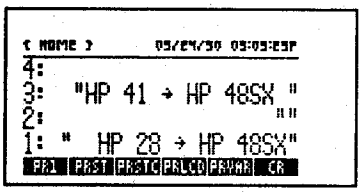
4. You'll be fast and timely. This baby is fast—fast computations and fast writing to screen. Its heart beats at 2 MHz, so its throughput is 50% greater than for that old speed king, the HP 28S.

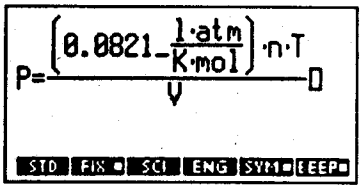
You'll have a Review mode, plus the ability to edit the stack, matrices, etc, so you'll have rapid, correct data and program entry.

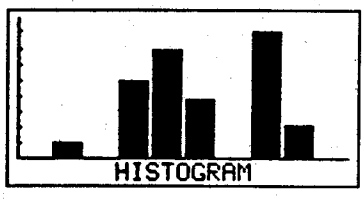
There's a calendar and a clock, and you can have them on your screen if you wish (there's date-arithmetic, too). You'll have two types of alarms: appointment and control. ***OK?***

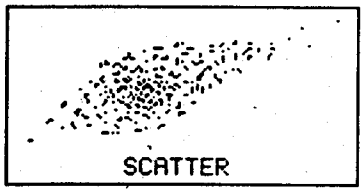


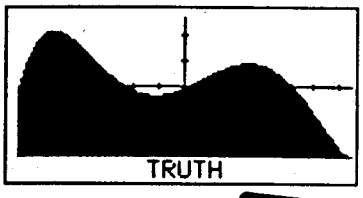
HP 48SX Scientific Expandable

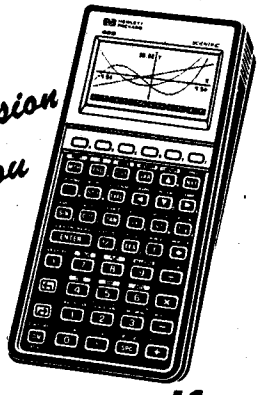












New HP 48 version saves you $80

Serve yourself — get it — now!

5. You'll be accurate. You'll use 2,100 functions to manipulate numbers that are stored with 12-digit mantissas and 3-digit exponents (your machine calculates with 15-digit intermediate precision).

You can change coordinate systems, even using 3-dimensional polar or spherical coordinates. And you'll specify the precision you want in evaluating an integral or root.

Your big new boon to accuracy is going to be units management—your new HP 48SX will do measurement-unit conversions (Metric to English, etc). It will factor units by units (for example, 3.5 kg/s² factored with respect to Newtons, N, gives 3.5 N/m). It will perform math on unit objects (so 10 ft/s added to 10 mph gives 24.67 ft/s).

But there's more—if you enter the units for your calculations, right along with the numbers, your HP 48SX will keep track of the units throughout its arithmetic—so if you expect your result to be a temperature but its units are meters, you know something went wrong. This is like having a check-sum built into every calculation—and it also labels every number so you always know where you are in your work. There are 148 units built in, and you can add your own.

Here is the first calculator that converts units automatically, and it is a real pleasure to use—you can concentrate on applications of your problems, instead of looking for mistakes in unit conversions. ***Isn't that what you've wanted?***

6. You'll have new smarts. If you have used the SOLVE function on a calculator, you know how useful it can be, and how much programming it can save you. But this one is something else. On the HP 48SX you can link several equations for simultaneous solutions. Or you can "solve a program" by using the SOLVR to invert a function. Or you can PLOT both sides of your equation, move the cursor near an intersection, and have the SOLVR find your root.

You'll have a built-in, high-level programming language to work with, too—conditional expressions and looping structures, 64 system flags and 64 more for the user, improved DBUG and SST functions, error trapping, . . .

This is a student's best friend, an engineer's powerhouse and a programmer's dream machine, all in one!

7. You'll be up to the minute. This machine does calculus—it can even find symbolic integrals (indefinite integrals)! It finds symbolic derivatives, too, and does lots of algebraic operations on symbolic expressions—simplify, expand product, collect like terms, distribute, factor common terms, . . . , and then it will evaluate.

Your PLOTR will find slopes for you, or find areas under curves, so you get calculus applications too. For approximations, it will find Taylor Polynomials, then superpose them successively on their function to give an animated display!

Statistics routines include curve-fitting with 4 models—linear, logarithmic, exponential and power — as well as upper-tail probabilities (normal, chi-square, F, Student's t) and a random-number generator.

You'll be able to do arithmetic with matrices and vectors that have real or complex number entries. That includes vector cross-products, dot-products, and lengths. It includes matrix inverses, determinants, Frobenius and row and column norms, transposes and Hermitian adjoints. There's even a command that improves a numerical solution to a system of equations by iterating with extended precision. ***Do you need this machine?***

Stock #HP48SX [Scientific Expandable Calculator] List $350..... $274.95

SAVE even MORE—if you won't require an expansion-card slot on your 48, there's a special slotless model available, with every other feature and function including InfraRed and Serial Interfaces.

Stock #HP48S [Scientific Calculator] List $249..... $194.95

Comes with Manual, Vinyl Case and batteries; 1 yr warranty.

HP 48SX Scientific Expandable

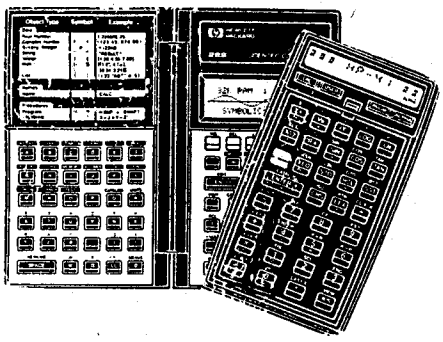
Here's where you find...

Accessories	44
Peripherals	45
Software	47
Books	51

Trade In Program

HEWLETT PACKARD

Save even more—



TRADE IN your used HP 41CX or HP 28S. Just send it to us, insured, in working order, with all its Manuals. Take CRedit on your Order — $60 CRedit for a 41CX, $45 CRedit for a 41CV or $60 CRedit for a 28S — and put the order and your check right in the box.

If you prefer to keep your old instrument until your new HP 48SX arrives, just send it to us later, along with its Owner's Manual and a copy of the sales receipt for your new machine—we'll send you your refund right away.

Accessories

Battery-backed RAM cards

HEWLETT PACKARD

Develop large programs and store more data in your HP 48SX — You can configure this extra memory either to add to your instrument's main memory or to use it as an electronic disk for backups.

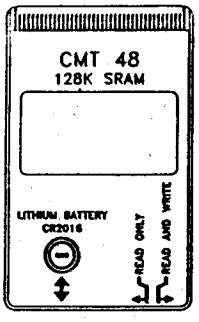
It plugs in inside your HP 48SX, and it has its own long-lasting battery so you save your information even if you take it out to store it or mail it to a friend. Comes in 2 sizes, 32K and 128K, and your machine can hold up to 2 of them. 1-year warranty.

Stock #82214A [32K RAM Card] List $80 ..... $69.95
Stock #82215A [128K RAM Card] List $195 ..... $159.95

Battery-backed 128K RAM Card for your HP 48

CMT

New Don't Miss This!



Special Write-Protect Switch guards against accidental erasure. Built-in tranzorbs protect from electrostatic discharge. CR 2016 battery included (2-3 year life). 1-year warranty.

Stock #2422 [48 RAM, 128K Card] List $125 ..... $109.95

"The HP 48SX has built-in features that must be programmed into other calculators. It's a standard to which all other calculators must be compared."
Dr. Kenneth Bourque, Wentworth Inst. of Technology, Boston

Multi-Memory RAM Card

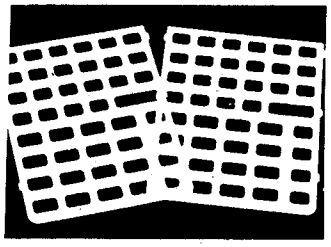
TDS

256 or 512K in one card! Included software automatically "bank-switches" so you get huge data capacity without card-switching. Battery-backed.

Stock #2475 [256K RAM Card] List $235 ..... $199.95
Stock #2476 [512K RAM Card] List $445 ..... $379.95

Overlay Kit for HP 48SX

HEWLETT PACKARD

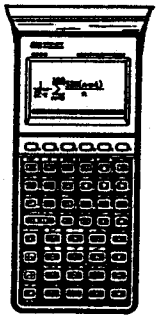


7 plastic keyboard overlays click into place — 3 transparent, 3 opaque (you can write key labels on these), and 1 with standard alpha keyboard markings.

Stock #82220A [48 Keyboard Overlay Kit] $14.95

Protective Bag for HP 48

COMP-U-BAG

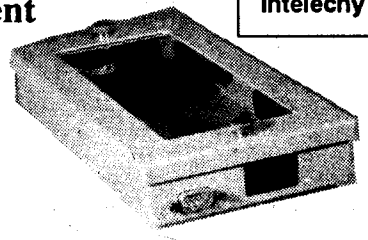


Zip out dirt and moisture—you can use your calculator right in the oil field (or the pillow fight) if it's in one of these flexible, transparent bags (not sealed against pressure); used daily, each bag will last a couple months. Fits into leather field cases, with easy access to plug-in ports.

Stock #543X [Standard Comp-U-Bag] $2.50
Stock #543XT [10 Std Comp-U-Bags] $19.95
Stock #543U [Anti-Static Comp-U-Bag] $2.75
Stock #543UT [10 Anti-Static Comp-U-Bags] $21.95

Protect your 48 in a Hostile Environment

Intelechy



- Moisture
- Liquids
- Corrosives
- Dust
- Gases
- Shock

Rigid metal box has screw down gasket seal — foam shock mounts hold instrument. You operate buttons through flex-membrane; InfraRed window and Serial Port allow communication. Four screw holes for tripod mounting.

Stock #2473 [Metal 48 Case] List $139.95

HP 48SX Accessories—

Stock #2249 [Solid Oak Stand] $16.95
Stock #2252 [Clear Acrylic Stand] $11.95
Stock #2225 [Hard Leather Case]* $42.95
*May require a long delivery time

PC Serial Cable

HEWLETT PACKARD

1.5 meter, plugs into top of HP 48; 9-pin connector.

Stock #82222A [PC Serial Cable only] List $35 ..... $29.95

Dual-Purpose HP 48 Serial Cable

EduCALC

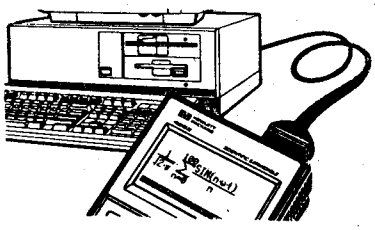
Switches so it can connect to computer or to printer—eliminates adapter and NULL modem.

Stock #2449 [Dual Purpose 48 Cable] $34.95

Accessories continued

Macintosh Serial Interfaces

HEWLETT PACKARD



Wire-up your HP 48SX to your Macintosh — 1.5-meter cable plugs into top of calculator.

You can store data and programs on your computer's disk drive. You can use the Mac's big key-board to enter HP 48SX commands — the Interface sends them to the calculator and returns results to computer screen for easy viewing (so you get excellent math software as a bonus).

Use your favorite computer text editor with the HP 48SX. Write and edit big programs, or enter large matrices and statistical data in a familiar way.

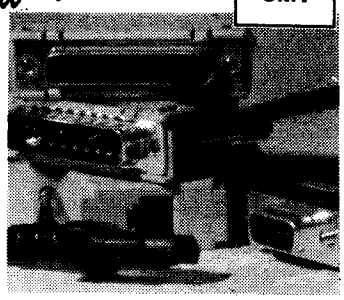
Comes with Instructions and computer software (3½" disk for Macintosh).

Stock #82209A [Mac Serial Interface Kit] List $60 ..... $49.95
Stock #82223A [Mac Serial Cable only] List $35 ..... $29.95

Serial Interface Kit for HP 48

Brand New

CMT



Avoid connector misfits! This 6' cable fits HP 48 Serial Port on one end and its other end is a phone jack. Cable is shielded and has strain relief.

4 adapters are included that accept the cable's phone jack — a 9- and a 25-pin female to fit PCs, a 25-pin male for a modem, and a 25-pin male for a printer.

Kermit communication program for PCs is included on disk, along with brief directions for its use.

Stock #2342 [Serial Interface Kit, 5¼"] $36.95

Extras for your HP 48SX—

like those that come with the product

Stock #2250, HP 48SX Owner's Manual vol I & II $24.95
Stock #2251, Equation Library Owner's Manual $9.95
Stock #82221A [HP Soft Case] $14.95
Stock #AAA [Alkaline Battery] Uses 3 ..... ea $.89

HPHH = "High-Powered HandHelds" International Electronic Conference

The international FidoNet computer bulletin board system, "gatewayed" to the Usenet academic and corporate network, carries a conference (or "echo"), with contributors world-wide, dedicated to High Powered HandHelds, particularly HP.

Anyone with a computer and modem may join the conference, in which many new programs and techniques are posted and discussed.

For information on how to link in, contact (up to 2400 baud, 8N1):
in the Americas: Terrapin Station BBS (1:115/678).+(708)657-9543
in Europe & the Middle East: No Zone BBS (2:253/159) +44-81-905-1245
in the Pacific & Asia: Sentry BBS (3:711/401) +61-2-428-4687

Program Development Link HP 48 to PCs

HEWLETT PACKARD

Turn your PC into an HP 48 program development system — **pull-down menu-driven editor** includes

- 1 or 2 edit windows
- Copy, cut, paste, undo
- Search and replace
- Automatic comment formatting
- Easy access to HP 48 special characters

This editor is integrated with data communications, so you transfer applications you've written to your 48 with one keystroke. It keeps track of what changes you make, and saves you time by transferring only changed variables.

On-line *HP 48 Programmer's Reference Manual*—click your mouse on any HP 48 command to see appropriate page of ***Manual***, including stack diagrams, usage, flags affected, related commands, and an example if appropriate. Paper copy of ***Manual*** also comes in box.

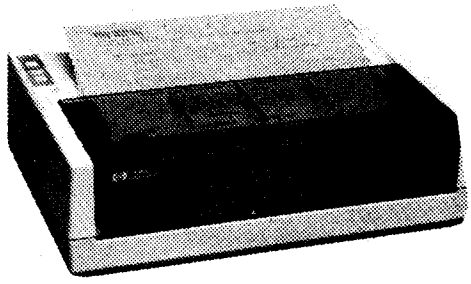
Includes all transfer and execution utilities, 1.5m cable, instructions. Requires DOS 3.0, hard disk, 640K, 9 or 25-pin serial port.

Stock #82208B [Program Dev Link, 5¼" & 3½"] List $120 .... $99.95

Peripherals

HP ThinkJet PC Printer AC or Portable

HEWLETT PACKARD

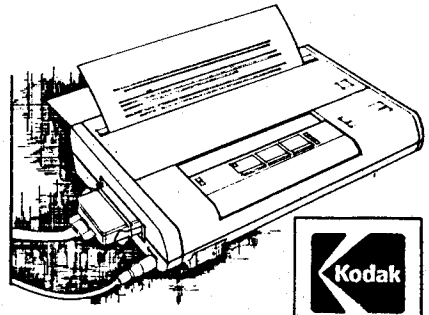


AC versions for all PC/Compatibles. Portable version for your Laptop. Centronics parallel interface, battery-powered (200 pages per charge). Quiet and robust enough for public use in university libraries.

Stock #2225P [ThinkJet, Parallel, Batt] List $495 ..... $399.95
Stock #2225A [ThinkJet, IB ver., AC] List $495 ..... $399.95
Stock #2225C [TnkJ Cntrnics Para., AC] List $495 ..... $399.95
Stock #2225D [TnkJ, RS-232 Serial, AC] List $495 ..... $399.95
Stock #92219Z [Cable for 2225P] List $52 ..... $45.95

Diconix 150 Plus Portable Printer

New



- **Fast**—up to 180 cps
- **Small**—2 x 10.8 x 6.5 inches
- **Light**—3.1 pounds (w/o batteries or adapter)
- **Quiet**—ink-jet, only 45 dBA
- **Versatile**—plain paper, sheet or tractor

Kodak

HP recommends this notebook-size gem, the Diconix 150 Plus. It's the perfect portable companion for your HP 48—and its superb print head is made by HP.

This is the serial, RS-232 model — reliable, handsome and inexpensive. It comes with manuals, AC adapter/recharger and 1 year warranty; requires five C cells (not included). To use it with your HP 48 you'll need a null modem or dual purpose cable, Stock #2449 on this page.

Stock #K150P [Diconix Serial Printer] List $539 ..... $419.95
Stock #CN [NiCd C cell] (requires 5) ..... ea. $4.49
Stock #2351 [Print Head Cartridge] $13.95

Recycle the already recycled—just remove the cover and this catalog is 100% recycled, 100% recyclable (as "newsprint.).

HP 48SX Scientific Expandable

Peripherals continued

InfraRed Printer

HEWLETT PACKARD

Get hard copies of all your graphics, data, programs or calculations. This silent thermal printer operates on four AA alkaline batteries (included) for go-anywhere portability — a set of batteries prints about 6000 lines, or there is an optional AC Adapter.

Printer connection cords have been replaced by an invisible infrared beam from the HP 48SX. It's the only link required for your printing needs.

You have plenty of leeway — up to a foot and a half — to put the printer where it's most convenient for you. Just point your calculator at it and push [PRINT]. No cords to tangle with.

Print speed with fully-charged batteries is just a shade over a half second per 24-character line. You can print out a complete record of the numbers you've used in your calculations, as well as your results. Or print selectively and provide clients with copies of quotes, amortization tables or itemized lists.

Stock #82240B [Portable InfraRed Printer] List $135 ..... $115.95
Stock #82241A [AC Adapter for IR Printer] $14.95
Stock #82175A [2¼" Printer Paper, black, 6 rolls] $9.95
Stock #AA [Batteries, Printer uses 4] ..... ea $.89
Stock #92169G [Cover, black] $22.95
Stock #92169H [Cover, brown] $22.95
Stock #92169J [Cover, burgundy] $22.95

Foreign adapters available—see p 15, HP 95LX section.

HP 48SX Overhead Display

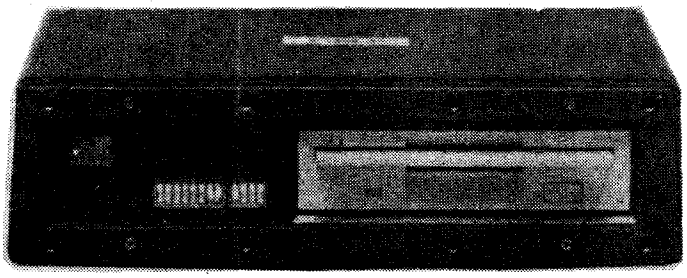
Stock #2268 [HP 48SX Overhead Display] List $500 ..... $449.95

See page 22.

HP 48SX External Floppy Disk Drive

CMT

New



Back up your valuable HP 48SX data and programs, in a machine shop, while driving your car, or even riding horseback in the rain!

Built-in batteries give you 20 hours normal usage (recharger included). Uses 3½" PC floppies, DS/HD (1.44MB) or DS/DD (720KB). Has 9-pin RS-232 surge-protected port. Baud rates from 110 to 19200. Hierarchical file system; programmable auto time-out.

Use it also as extra disk drive for your PC. Transfer files via modem or RS-232 using KERMIT or XMODEM. Print or plot data directly from disk files.

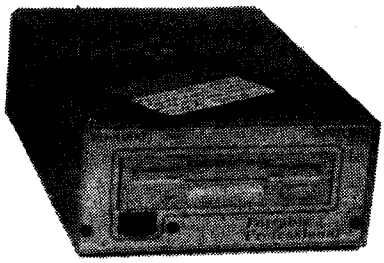
Comes with adapter/recharger and communication/formatting software for the HP 48SX and PC/compatible. Cable not included. 7 × 8 × 2.25 in., 4 lb.

Stock #48RSFD [External Disk Drive] List $400 ..... $379.95
Stock #82222A [PC Serial Cable] $29.95

Portable 3½" Disk Drive for your HP 48

Sparcom

New



- **Uses standard 3½" disks** with MS-DOS formatting, 720K or 1.44M.
- **Minimal power consumption**—up to 20 hours normal operation on rechargeable batteries
- **Kermit file transfer protocol**—with one serial RS232 port, DB9 connector
- **9600 Baud, N, 8, 1 default parameters**—user-configurable with dip switches
- **3.5 lbs, 7.0 × 5.5 × 2.5 inches**
- **File Manager**—a screen-based HP 48 program that makes file transfers, calculator backup and directory management a simple point-and-click operation.

Includes File Manager program on disk with manual, Kermit, RS232 serial cable and charger/adapter; 180-day warranty.

Stock #FD1000 [Sparcom Disk Drive] List $390 ..... $349.95
Stock #2327 [Formatted 3½" HD Disk] $2.50

TDS 480 Survival Case for your HP 48

TDS

New

Survival counts, where your 48 is concerned. This dust, shock and water-resistant case may be ugly—BUT, put your 48 into it, snap the cover down onto the O-ring, and your 48 is safe. You key in your data directly through a clear, flexible membrane.

There is a 9-pin port molded in—you can use a standard (serial) computer cable with a 9 or 25-pin connector on the other end for your PC. Port also accepts connector to recharger for case's built-in NiCd batteries.

TDS 480 Basic Configuration consists of case, rechargeable NiCd batteries, recharger and cloth carrying case.

TDS 480 Memory Enhanced Configuration consists of basic configuration with 384K RAM memory and TDS 48 Survey Card (Stock #2239) built in.

Optional Cold Case goes on over Environmental Case to keep your 48 warm for up to 6 hours in below-freezing weather.

Optional Total Station Cable gives you a direct connection.

Stock #2424 [TDS 480 Basic Configuration] List $145 ..... $134.95
Stock #2425 [TDS 480 Mem Enhanced Config] List $1095 .. $799.95
Stock #2426 [Cold Case] List $110 ..... $99.95
Stock #2427 [Computer Cable, 9 to 9-pin] $46.95
Stock #2428 [Computer Cable, 9 to 25-pin] $46.95
Stock #2332 [TDS 480 Cable, Leitz/Topcon] List $75 ..... $69.95
Stock #2333 [TDS 480 Cable, Nikon/Top Gun] List $75 ..... $69.95
Stock #2334 [TDS 480 Cable, Zeiss] List $75 ..... $69.95
Stock #2335 [TDS 480 Cable, Pentax] List $75 ..... $69.95
Stock #2336 [TDS 480 Cable, Kern] List $75 ..... $69.95
Stock #2337 [TDS 480 Cable, Wild] List $75 ..... $69.95
Stock #2338 [TDS 480 Cable, Geodimeter] List $75 ..... $69.95

In a hurry? Use our UPS 2ND DAY AIR.
A Big Hurry? UPS OVERNITE AIR!

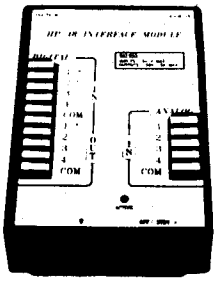
HP 48SX Scientific Expandable

Peripherals continued

ADCM–48
A/D and Control I/O for your HP 48

Travtech

New



Low–cost, completely portable: four 0–5v, 8–bit analog input channels, four TTL/CMOS compatible digital inputs, and four half–amp outputs.

Creative use of ADCM sleep mode and HP 48 alarms allows several months' stand–alone operation on one internal 9v battery—so you can have a remote data–logging and control system!

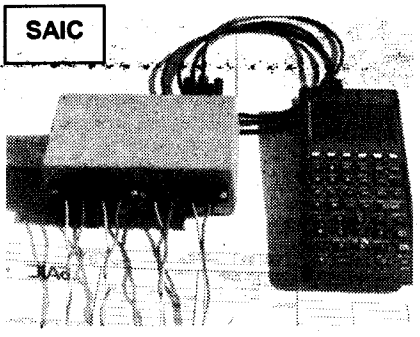
Safe—unit makes no electrical contact with your HP 48; instead communicates over its InfraRed link.

Software for common instrumentation setups and for lo–level subroutines is included on disk. Manual includes extensive application circuits, for interfacing to a variety of devices.

Stock #ADCM48 [A/D I/O for 48]..... $199.95

A/D Converter for the HP 48SX

SAIC



Automated, remote, passive monitoring in the
- **laboratory**
- **environment**
- **machinery**
- **factory**
- **structure**
- **power system**

A versatile, self–contained data–acquisition system with analysis capability and PC or Macintosh–compatible data files. Low cost.

Two 16–bit input channels, 0–10 vdc, scans as fast as 1 per second. Low cost.

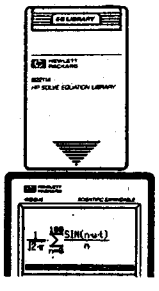
Comes with manual and complete HP 48 software listings; requires HP 48SX with PC or Mac Serial Cable, plus a 9v battery (not included). Low cost.

Stock #2304 [A/D Converter] List $450..... $399.95
Stock #9V [Alkaline battery] uses 1..... $2.80

Software

HP Solve Equation Library Application Card

HEWLETT PACKARD



Plug in over 300 science and engineering equations—you'll use the HP 48SX cursor keys to select from equation topics such as columns and beams, electricity and fluid flow. Then touch a key to see a set of related equations. Choose your equation — the HP 48SX displays it, gives you a picture of the physical system (if appropriate) and lists the descriptions of each variable in the equation.

Physical Constants Library — if your equation requires constants, like gravity or the speed of light, the HP 48SX will place them where you want them — no more cumbersome reference tables!

Periodic Table of Elements — you will press a key to view atomic weights, numbers and densities — you may never have to find tables in a book again!

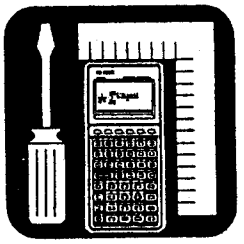
Includes Owner's Manual and ROM card that plugs into one of the two compartments inside your HP 48SX.

Stock #82211A [Equation Library ROM Card] List $100..... $79.95

HP 48 MLDL– Machine Language Development Library ROM Card

Jan Brittenson

Brand New



A set of commands helpful to professional developers of HP 48 machine language programs and to a student of the machine's assembler and system ROM.

Contains a disassembler which permits you to print and examine both your own and system ROM machine language programs.

There is also a debugger so you can single–step programs, examine memory and registers and set break points. You can work locally on your HP 48 or remotely over the serial line, using either a dumb ASCII terminal or emulator. Support is built in for running debugger as a slave from an intelligent front–end, using windowing systems and symbol data from the assembler.

Though the MLDL programs are also available on our Goodies Disks #3, this ROM card has none of the limitations of the RAM library. Comes with extensive 106–page with specs, examples and reference tables.

Stock #2359 (MLDL, ROM Card)..... $89.95

48 Application Card Programming Service

Let us make your own 48 Application Cards for you—just send us your program on a RAM card, and we will duplicate it on an OTP card. Select stock # for quantity pricing. Prices per each card.

Stock #2285A [1 Card: 128K OTP, Programmed]..... $59.95
[2 to 8 Cards: 128K OTP, Programmed]..... $49.95
[9 or more Cards: 128K OTP, Programmed]..... $45.95
Stock #2286A [1 Card: 32K OTP, Programmed]..... $39.95
[2 to 8 Cards: 32K OTP, Programmed]..... $29.95
[9 or more Cards: 32K OTP, Programmed]..... $28.50

Program your own Application/Data Cards for the HP 48

CMT

Burn programs and data into 128K EEPROM cards that slide into the HP 48—programs execute directly out of cards. You can electrically erase and reprogram a card at least 100 times.

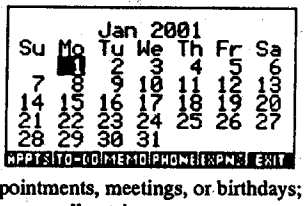
Programmer has built–in erasing circuit, and it takes only 1 minute to do it.

Stock #2305 [EEPROM Programmer] List $295..... $279.95
Stock #2306 [128K EEPROM Card] List $100..... $89.95

Personal Information Manager

Sparcom

Brand New



Application Card instantly makes your HP 48SX into a Business Informator

- **Interactive calendar** serves as your entry point for all functions.
- **Appointment book** allows you to enter appointments, meetings, or birthdays; set reminder alarms; and create reports of any or all entries.
- **Notepad** allows you to list any type of data as memos, including to–do lists.
- **Phone directory** permits you to store, sort and retrieve up to nine fields of information for each entry, including name, company, address, home phone, business phone, and fax numbers.
- **Expense accountant** permits you to enter, describe and compile expenses under customizable account names.
- **Time clock** documents time spent working on projects or accounts.
- **Report generator** compiles itemized lists from the data stored by each function. Reports may be sent to the HP 48SX screen, a file, an IR printer, a PC or another HP 48.

Stock #2323 (Personal Information Mgr, Card) List $100..... $89.95

HP 48SX Scientific Expandable

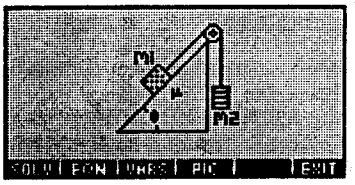
Software continued

HP 48 Application Cards for ME, EE, Gen Chem, and Math

Sparcom

There are two types of these "Pocket Professionnal" software cards for each field. **The Applications Pacs are designed for undergraduate students**—each contains hundreds of equations with diagrams, charts and tables, analyses and reference tables in easy-to-use menu-driven format. No need to program, manage units or find constants—the solutions are built in, ready for use in class or lab, office or field.

The Reference Pacs have thousands of data entries, so you have calculator and handbook combined, with no programming needed!

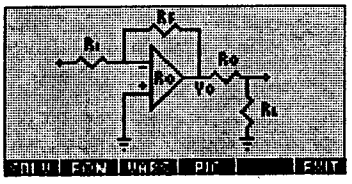


ME Applications Pac—over 300 equations from fluid mechanics, heat transfer, gases, columns and beams, stress analysis, machine design and more. Analysis sections include inclined plane. steam tables and thermocouples.

Stock #2290 (ME Applications, Card) List $100 ..... $89.95

ME Reference Library—over 3000 entries from nine subject areas; including properties of solids and liquids, composition of metals, refrigerants, fuels and combustion, thermal properties, saturated gas properties and more.

Stock #2291 (ME Reference, Card) List $100 ..... $89.95

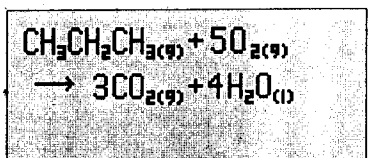


EE Applications Pac—over 300 equations in circuit elements, DC circuits, RL and RC circuits. RLC circuits, OpAmp circuits, solid state devices and more. Analysis sections include simple AC circuits, Fourier and Laplace transforms, ladder network analysis, two-port networks and more.

Stock #2292 (EE Applications, Card) List $100 ..... $89.95

EE Reference Library—over 3000 entries from seven subject areas; covering properties of Silicon, digital specifications, properties of lasers, III-V and II-VI compounds, standard component values, wire gauge, dielectric and magnetic properties, and more.

Stock #2293 (EE Reference, Card) List $100 ..... $89.95



General Chemistry Applications Pac — over 150 equations from kinetics, acids/bases, gases, precipitation and more. Plot pH titration curves and radial functions. Periodic Table includes 14 properties of each element. A chemical-equation writer that calculates theoretical yields, limiting reagents, and checks balance. Molecular weight calculator.

Stock #2294 (Chem Applications, Card) List $100 ..... $89.95

Chem Reference Library — over 3000 entries in eleven subject areas; elements, solids, liquids, gases, acids/bases, thermodynamics, complexes, solubilities, electrochemistry, water and bonds.

Stock #2295 (Chem Reference, Card) List $100 ..... $89.95

Mathematics Applications Pac — easy access to algebraic utilities: quadratic/cubic/quartic solver, combinations/permutations, base conversions, LCM/GCD/prime factors. Geometric topics include equations for conic sections, centroids and moments. Trig includes graphs and definitions for trig and hyperbolic functions plus equations and identities. Calculus: derivative and integral tables with electronic search, vector analysis and Laplacian in polar, rectangular and spherical coordinates. Fourier, Laplace and Z transforms.

Stock #2324 (Math Applications, Card) List $100 ..... $89.95

Structural Analysis Card for the HP 48SX

Structural Engineers and their students find these menu and screen-driven plug-in programs easy to learn, easy to use.

General Beam, Plane Frame, Concrete Column, and Steel Column and Beam Analysis programs. User's Manual includes sample problems and a short list of references with each program.

Stock #2487 (Structural Analysis, 48 Card) List $125 ..... $109.95

TDS

TFR48
File Transfer and Conversion Software

Transfer raw data, point lists and coordinate files back and forth from your office PC to and from your HP 48SX with Survey Card—edit your raw data in the PC, process new coordinates from the edited data, and convert the data format to be compatible with any one of two dozen other surveying and CAD based software packages.

For example, back in your office you discover that your rod man changed the rod height during the job, but neglected to make the change in the 48, so elevations are all wrong from that point on. No problem—you can edit in your PC using TFR48! Context-sensitive HELP is always available at the touch of a key.

You'll need a PC or AT running DOS 2.11 or greater, 512K RAM, plus the 48-to-PC Serial Cable (#82222A).

Stock #2233 (TFR48 PC Program, 5¼") List $250 ..... $224.95
Stock #2278 (TFR48 PC Program, 3½") List $250 ..... $224.95

TDS-48 PC Software Program

Completely emulates all TDS Survey Card menus, screens, and functions—so they look and work on your office PC just as they would in an HP 48 SX. Also contains other functions from the TDS-500 Surveying Field Computer, like spiral curve routines, earthwork computations, control files, and offsets.

Powerful interactive graphics allow you to draw any operation of the Survey Card on the PC screen, then send graph to plotter with one keystroke.

Requires an AT with 640K and a hard disk; supports Hercules graphic display and will use color on CGA/VGA/EGA. You will need the TFR48 program if you wish to transfer data files from your 48/Survey Card to this program. Adaptable for English or Metric units.

Stock #2279 (TDS-48 PC Program, 5¼") List $495 ..... $429.95
Stock #2280 (TDS-48 PC Program, 3½") List $495 ..... $429.95

TDS-PC Plus Software Program

Contains every program of #2279/80 above, plus: Contouring, 2 new Curve Functions and Street Intersection Layout. Also includes TFR File Transfer and Conversion programs and communicates directly to your Total Station. Take this to the field in your laptop!

Stock #2477 (TDS-PC Plus, 5¼") List $745 ..... $629.95
Stock #2478 (TDS-PC Plus, 3½") List $745 ..... $629.95
Stock #2525 (TDS-PC Plus Demo, 5¼" disk & manual $9.95

HP 48 File Manager

Donnelly

Superconvenient file exchange program eases data transfer between the HP 48 and your PC. The File Manager lets you browse through the directories right in the HP 48 display! Push a menu key to transfer one or more files or archive your HP 48. Other menu commands let you create directories, rename files, purge files, and much more. This efficient machine-language utility is a must for anyone who saves HP 48 programs and data on a PC. Manual included; does NOT work with Macintosh or with CMT disk drive.

Stock #2474 [HP 48 File Manager, 5¼"] $15.95

HP 48SX Scientific Expandable

Software continued

HP 48SX
Survey Card

TDS

A plug-in software card for Data Collection, Stakeout, COGO, Curves, and much more — displays curves graphically.

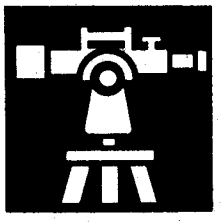
Uses full HP 48SX capability—you move around the screen with cursor keys, use menus and softkeys for quick access to surveying functions. With RAM card installed you can collect field data up to 3000 points, including Northing, Easting, elevation and 16 character point descriptors. InfraRed Interface squirts data to printer or to another HP 48SX.

Optional spring-clip Tripod Bracket holds your HP 48SX as you work. Optional cable will connect the HP 48SX to your Leitz/Topcon, Nikon/Topgun, Zeiss or Geodimeter electronic total station. Optional Cable Adapter connects the HP 48SX to Pentax, Kern or Wild total station and requires HP's PC Serial Cable (our #82222A). Choose correct cable or adapter to fit your brand of total station.

Stock #2239 [TDS Surveying Card] List $495 ..... $429.95
Stock #2261 [TDS Tripod Bracket] List $75 ..... $69.95
Stock #2253A [TDS Cable, Lietz/Topcon] List $75 ..... $69.95
Stock #2254A [TDS Cable, Nikon/Top Gun] List $75 ..... $69.95
Stock #2255A [TDS Cable, Zeiss] List $75 ..... $69.95
Stock #2256 [TDS Cable Adapter, Pentax] List $50 ..... $46.95
Stock #2257A [TDS Cable, Geodimeter] List $75 ..... $69.95
Stock #2258 [TDS Cable Adapter, Kern] List $50 ..... $46.95
Stock #2260 [TDS Cable Adapter, Wild] List $50 ..... $46.95
Stock #2266 [TDS CoGo only, card] List $125 ..... $109.95
Stock #2269 [Surveying Card Demo, 3½" disk] deposit $35.00

Surveyor's Software
ROM Cards for the HP 48

SMI



Basic Coordinate Geometry Surveying Card stores up to 1200 points by point number, easy field book entry, curves, intersection, translate, rotate. Comes with keyboard overlay and manual.

Stock #2296 (Basic COGO, Card) List $95 ..... $81.95

Civil Engineering Card includes vertical curves, horizontal curve layout, earthworks, hydrology programs for designing various open-channel ditches, pipe sizes for storm and sanitary sewer, plus more.

Stock #2297 (Civil Engineering, Card) List $95 ..... $81.95

Standard Coordinate Geometry Surveying Card contains all features of #2296 plus sunshot, elevations, stake program; will give GO and COME, CUT and FILL, predetermined area.

Stock #2298 (Standard COGO, Card) List $300 ..... $249.95

Advanced COGO Surveying Card contains all features of #2296 and 2298; store any size point description; send data to PC in various formats. Includes two point resection, offset from a series of lines, CRIS compass rule (including side shots) and perpendicular offset (determines perpendicular distance of a point from a line). Comes with overlay and manuals.

Stock #2299 (Advanced COGO, Card) List $500 ..... $419.95

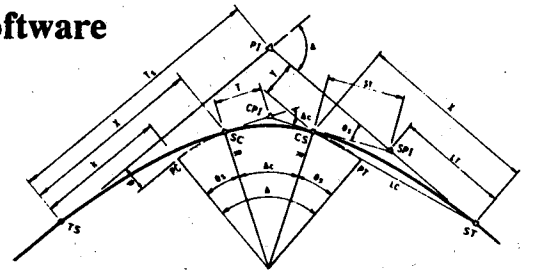
Data Collection plus Advanced COGO Card — all features of #2296, #2298 and #2299, plus manual and electronic data collection.

Automatically collects data from Leitz, Nikon Top Gun, Topcon, Wild and Zeiss Electronic Total Stations. Cable not included.

Stock #2470 [Data Collection & COGO, Card] List $1000 .... $795.00

Thank You for Your Order

Lo-Cost
Surveying Software for the HP 48



D'Zign

All D'Zign software features **free** updates and unlimited **free** support for users. You may program as many calculators as you like with it—merely buy additional manuals at $20 each to register for the freebies (and to conform to U.S. copyright law, and to give the workman his due).

Each program package comes to you on both 5¼" and 3½" PC disks—so you'll need a PC and a #82222A Serial Cable to download programs to your HP 48 (this way, you save memory space by downloading only the programs you need to use). Each package includes Owner's Manual.

HP 48SX Surveying Packet #1

Full Coordinate Geometry, including rotation, predetermined areas, intersections and inverse traverse by point numbers for areas. Field layout programs include the best version of our Alignment/Offset programs to date and fast radial inversing. Also has Triangle and Circular Curve solutions and an easy-to-use file system.

Leveling Field Book with 3-wire and trig-leveling options is something new to handhelds. Use the calculator as a field book and print out or automatically adjust the level run later.

Requires HP 48SX with 128K RAM Card installed.

Stock #2310 (D'Zign 48 SX Surveying Packet #1) $149.95

HP 48S Student Pak—Lo-lo-cost COGO!

Contains all the coordinate geometry programs of #2310 above, plus the triangle and circular curve routines. Uses a single file of up to 500 points and fits into the HP 48S (or 48SX without any RAM card).

Stock #2339 (D'Zign 48S Student Pak) $39.95

HP 48S Route Pak

All of the programs for route location and design, either in the field or in the office. Alignment/offset spirals, vertical curves, remote slope staking and more—also works with spiral curves.

Fits into HP 48S (or 48SX without RAM card).

Stock #2341 (D'Zign 48S Route Pak) $39.95

HP 48S Construction Pak

Store your building grid line coordinates and call them up by grid line to do calculations for radial inversing. Specify the grid point and the size of a footing and the program automatically calculates the radials to directly set the corners, or offsets to the corners. Calculates the intersection of a grid line with a curved side, angled line, etc. All calculations can be made with foot/each-fraction input. Output may be either decimal feet or feet and inches.

Fits into HP 48S (or 48SX without RAM Card).

Stock #2340 (D'Zign 48S Construction Pak) $39.95

Calculator Bulletin Board System

This is an HP service where users and devlopers can exchange software and information. It operates at 300/1200/2400 baud, full duplex, no parity, 8 bits, 1 stop bit; the phone number is (503)750-4448. This service is FREE; you pay only the long-distance telephone charge. The HP BBS is the best source for programs.

Attention: Club Secretaries! Let us know what your calculator club is doing—EduCALC will spread the word! Call Mike Bruggeman in Group Sales, (800)677-7001.

HP 48SX Scientific Expandable

Software continued

Surveying Software for the HP 48SX

Party Chief

Brand New

COGO software—Operates in either Menu Driven Mode for beginners or Overlay Mode for advanced users. Interactive with the stack so you can jump from one program to another while using the data on the stack. Includes Traverse, Inverse, Sideshots, S/O Ties, Key (resection), Intersections with Offsets, Circle, Triangle, Elevations, Trig functions (work in HMS format). Interfaces with most total stations. Editor, Horizontal and Vertical curves, Templates, Slope Stake, Rotate and Translate, File Manager, Cut Sheets. Plots Data to the screen to you can visually check it, and much more.

TOPO Collection—Includes COGO software; completely menu driven. All topo codes are user definable. The keyboard is reassigned with topo features to allow for easy collection. No more remembering codes—process raw data into coordinates in the field. You can also edit the data in the field. Raw data can be formatted to produce a finished map with CADD assistance.

Each program comes on 5¼" disk—you'll need a serial cable (#82222A) to download it from your PC. Each has its own special Overlay to customize your HP 48 keyboard; Manual included. Each program requires a minimal 288K RAM configuration.

Stock #2526 (Party Chief COGO).....$349.00
Stock #2527 (Party Chief TOPO).....$549.00

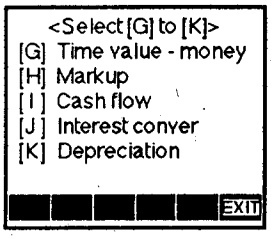
File Transfer and Conversion Software for your PC

FileMan48—Transfer Cogo, Topo, Horizontal, Vertical, and Template files back and forth from your PC to the HP 48SX. Software is capable of working with a mouse. Manual included.

Stock #2528 (Party Chief FileMan48, 5¼").....$99.00

TDS 48 Financial Functions Library

TDS



Pop this card in the slot and turn your 48 into a powerful HP financial calculator.

Time Value of Money, Mark-up, Cash Flow, Interest Rate Conversions, Depreciation.

Stock #2482 (Financial Functions, 48 Card) List $95.....$79.95

Casino 48 Application Card

Preston Brown Labs

Get all your favorite casino games with great graphics and animation: you'll walk over to a playing table and start the fun.

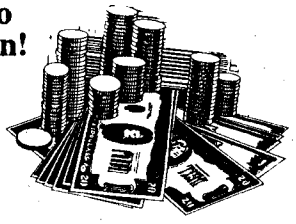
At the Blackjack table you get the usual choices to hit, stay, double down or split pairs. Plus Casino 48 will make you a blackjack expert; just press the recommend key and the 48 will analyze your situation and recommend the best strategy—and provide the rule you should remember. There is also advice on splitting and doubling down. Back in the Casino you can walk over to the animated Slot machine, Roulette table or the Video Poker machine.

As an added bonus you can create your own card games with commands for drawing cards on the screen. Slide this card into a slot in your HP 48SX and enjoy.

Stock #2259 (Casino 48, Card) List $65.....$56.95

Casino Games Plus 3.0
You never have to go to Monte Carlo again!

Softcalc



You'll have 3 animated card games in your HP 48SX—**Blackjack** is standard, with insurance, splitting pairs and doubling down—in **Poker** you bet (raise, pay, call), then draw and bet again, and the 48 may bluff you with his hand—**Showdown** deals 1 card (high wins, or tie) from a pinochle deck.

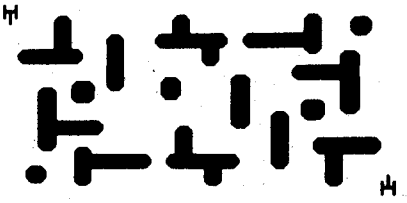
Slots is fully animated, with spinning wheels and a moveable arm you pull on—in **Roulette** you move around the table placing your bets, then watch both wheel and ball as they spin.

Comes on disk for your PC or Mac—you'll need the HP Interface Cable to download this program to your HP 48SX.

Stock #2281 (Games + PC Pgm, 5¼ & 3½") List $30.....$26.95
Stock #2282 (Games + Mac Pgm, 3½") List $30.....$26.95

IR WARS
and 2 more HP 48 Games

Hans Glitsch



Something different—TWO HP 48's battle it out with each other (over their InfraRed Interfaces). In the office here, we couldn't stop playing!

HP Tanks—each player maneuvers his tank around an obstacle-filled battlefield as he tries to destroy the other tank with his gun.

IR Cannons—each player aims his cannon through differing wind conditions to fire his shell onto the other player's screen. Objective is to destroy the other's cannon.

There are 2 more single-calculator games: in **Connect Five** you try to get 5 X's in a row before the calculator beats you to it. In **Concentration** you try to uncover more pairs of cards than another person gets.

Comes on disk to download from your PC or Mac.

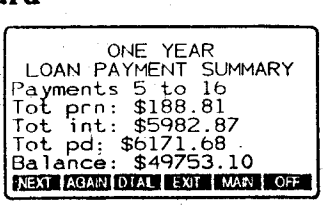
Stock #2436 (IR WARS for PC, 5¼").....$21.95
Stock #2437 (IR WARS for Mac, 3½").....$21.95

E.Z. Math
HP 48SX Application Card

SMI

New

- **Students**
- **Teachers**
- **Bankers**
- **Business Men**



Throw away your HP Manual—with this card your HP 48SX becomes simple, straightforward and intuitive—E.Z.!

You'll have E.Z. graphical analysis of nearly 200 families of equations, covering HS algebra through college calculus.

You get E.Z. time-value-of-money functions, to figure out loan payments, rates, etc., as well as repeated deposits into a savings account.

You'll have E.Z. arithmetic of fractions, plus LCMs, GCDs, prime factorizations and binomial coefficients.

In every problem, all of your original input is repeated along with the answer, so you can be sure. Comes with 150-page manual of its own.

Stock #2443 (E.Z. Math Card) List $125.....$109.95

Software continued

HP 48 Goodies Disks
Public-Domain Software Programs

- **High Density Disks for PCs; 1.2M 5¼" or 1.44M 3½"**
- **Lo-Lo-Cost, Donated Progams — provided AS IS, without support from EduCALC, HP or anyone else**

EduCALC

Vol 1: We have Joseph K. Horn to thank for this: 272 files and 989,337 bytes on one high-density PC disk, mostly downloaded from HP's Corvallis BBS.

Running analog clock, Finds hex address of any object, Picture of Alfred E. Newman, Intro to 48 assembly language, the game of Blackjack ("21"), HP 48 bugs & version fixes, Graphic calendar maker w/alarms, Differential Equation solvers, HP 41CV Emulator comments, Animated rotating world globe, Play real music w/samples, All about the hidden directory, Tetris video game, much more.

Vol 2: We have Derek S. Nickel to thank for this: it contains Voyager V1.0-6, which will allow you to interactively disassemble the contents of the HP 48SX ROM and other 48 programs. There are also HP 48SX Internals, Voyager Reference Manual and Saturn Instruction Set.

Vol 3: a continuation of Vol 1, also from Joe Horn: 1,012,072 bytes in 264 files—games, utilities, programming hints and aids, fractals and other graphics, numerical routines, hardware secrets, etc.

Vol 4: prepared by HP *but not supported or warranted by them:* tools for use by a System Level RPL programmer on a PC platform to create HP 48 applications, with documentation. Includes approx. 2000 supported (frozen addresses) system objects.

Vol 5: Joe Horn has done it again: many new video games with hi-quality graphics; a TV IR Remote learning program, latest Hacker Tools, Flight Planning, Black Body Emmissions, Internal Messages, Planetary Positions, more.

Stock #2410 (HP 48 Goodies Disk, Vol 1, 5¼" HD)..... $4.95
Stock #2320 (HP 48 Goodies Disk, Vol 1, 3½" HD)..... $4.95
Stock #2452 (HP 48 Goodies Disk, Vol 2, 5¼" HD)..... $4.95
Stock #2453 (HP 48 Goodies Disk, Vol 2, 3½" HD)..... $4.95
Stock #2483 (HP 48 Goodies Disk, Vol 3, 5¼" HD)..... $4.95
Stock #2484 (HP 48 Goodies Disk, Vol 3, 3½" HD)..... $4.95
Stock #2485 (HP 48 Goodies Disk, Vol 4, 5¼" HD)..... $4.95
Stock #2486 (HP 48 Goodies Disk, Vol 4, 3½" HD)..... $4.95
Stock #2355 (HP 48 Goodies Disk, Vol 5, 5¼" HD)..... $4.95
Stock #2356 (HP 48 Goodies Disk, Vol 5, 3½" HD)..... $4.95

Port your HP 41 applications to the HP 48SX and see them run *faster!*

grep

Brand New

Greplite's GL41X emulator for the HP 48SX is an expansion of HP's 82210A HP 41CV emulator designed specifically for the porting of ROM module and EPROM-based HP 41 applications to HP 48SX PROM cards.

Your HP 41 applications are loaded on the same PROM card as the emulator with pre-complied XEQs and GTOs for *full speed* operations and negligible RAM overhead!

Any HP 41 application (other than one using HP-IL, the Barcode Wand or the Card Reader) can be ported. This includes applications using HP 41CX extended functions and even custom HP 41 Mcode functions!

Write today for your *free* copy of the GL 41X fact sheet and find out about Greplite's *low cost* porting service.

Stock #2532 (GL 41X fact sheet).....NO CHARGE

HP 41CV Emulator Application Card for the HP 48SX

HEWLETT PACKARD

Use the 82242A InfraRed Module to copy programs or data from an HP 41 to your HP 48, or type HP 41 programs or data into the HP 48 (keyboard overlay included).

Those programs will now run on your HP 48; you can even invoke 41 programs from 48 programs or 48 programs from 41 programs, or exchange data between these two environments.

Card does not support HP-IL, graphic printer or HP 41CX Extended or Time functions (although you will have some alternatives).

Stock #82210A [41/48 Emulator, Card] List $100..... $79.95

The HP 48 Programmers Toolkit

James Donnelly

Turbo charge your own programs with this library of machine-code subroutines—more than 60 new commands for high-speed stack operations, list and string utilities, sorting, graphics, data calculations, meta-object utilities and directory searching—for example, create a 10K character string in one second, or reverse the order of 1000 stack items in two seconds.

Two browser engines provide a front end for your application program (they do the hard work yet leave the fun part for you). Includes editor for building menu-label graphics (for your custom menus).

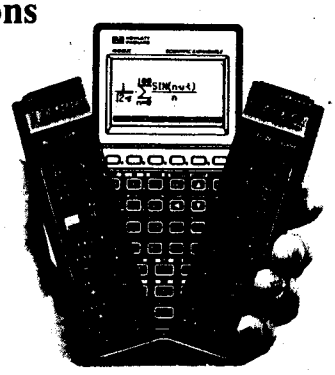
Everything is clearly documented with examples in the Manual. Comes on disk for PC or Mac, so you'll need an HP Interface Cable to download these programs to your 48.

Stock #2283 (Toolkit, PC Pgms, 5¼")..... $49.95
Stock #2284 (Toolkit, Mac Pgms, 3½")..... $49.95

Books

HP 41/HP 48 Transitions

by William Wickes



Shows you how the HP 41 evolved logically into the HP 48 and how many of the 48's actions are natural extensions and enhancements of familiar 41 operations—**so you'll see just how to adapt your HP 41 procedures and methods to the HP 48SX,** including stack manipulations, storing and retrieving data, programming, and program conversions.

Dr. Wickes is the author of two other widely-used standard works, *HP 28 Insights* and *Synthetic Programming on the HP 41C.*

Stock #2288, HP 41/HP 48 Transitions,..... $16.95

Introduction to RPL

New

by Namir Shammas

Is this an *introduction*? When Chapter 9 shows you how to turn your HP 48 into a pocket database that stores phone numbers and addresses?

Yes, but with a difference—this is by the Shammas who writes all those books that teach computer languages, BASIC and Pascal and C. He assumes you're familiar with either the HP 41C or BASIC, and he skillfully assists you in becoming comfortable programming in RPL.

Contains abundant examples of programs, plus tips, tricks, hints, etc., just where you need them.

Stock #2454, Introduction to RPL, 216p softbound $21.95

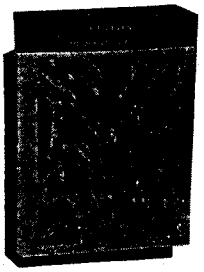
HP 48SX Scientific Expandable

Books continued

Calculus with the HP 28S and HP 48SX

New

by Lynn Garner



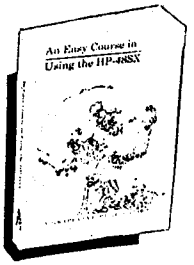
Get the most out of your calculus course and your calculator! Here are the tutorial helps, tips, tricks, explanations and programs that you'll need.

Let's say that you know how to do the calculus 'by hand' and are looking for a way to speed up the process with your calculator—you'll find that here, for all the standard topics of a three-semester course, in their standard orders.

Stock #2434, Calculus with HP 28S/HP 48SX, 115p sftbnd $16.95

An Easy Course in Using the HP 48SX

GRAPEVINE PUBLICATIONS, INC.



Your *fast, easy* way to get up-to-speed on the 48!

First you'll get a tour of the keyboard, stack, menus, etc., and find out how to build and use each of the different kinds of *objects* in the HP 48:

- Real Numbers
- Complex Numbers
- Vectors
- Arrays (Matrices)
- Binary Integers
- Lists
- Characters & Strings
- Tags
- Names
- Algebraic Objects
- Programs
- Directories
- Units
- Flags

Then you'll learn how to apply these objects in:

- Math
- Directory Structuring
- Calculus
- Statistics
- Algebra
- SOLVing Equations
- Building Equations
- Plotting
- Time Calculations
- Customizing Menus
- Assigning Keys
- Postfix Programs

You'll get a working example of every command and concept you need, plus reviews and summaries, so **you can learn at your own speed how to calculate like a pro!**

Stock #2416, Easy HP 48SX, 392p softbound.....$21.95

HP 48SX Graphics

GRAPEVINE PUBLICATIONS, INC.

Use the full potential of that big display on your HP 48SX—learn how to build "GROBS" (graphics objects) and how to put them into your own custom diagrams, pictures and plots.

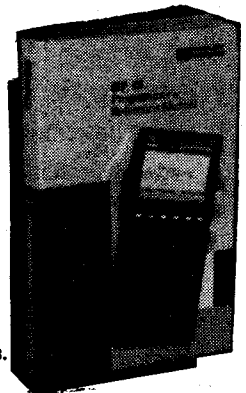
You'll start with an in-depth review of the built-in PLOT and SOLVER graphics tools and how to use them *well*.

Then you walk through the process of building your own GROBS to produce some very impressive graphics, right on your own HP 48SX—**don't miss it!**

Stock #2417, HP 48SX Graphics, 272p softbound $19.95

HP 48 Programmer's Reference Manual

HEWLETT PACKARD



A "must have", for reference and for study

The Command Dictionary for every serious HP 48 user — summarizes each programmable operation, one page per function. Gives usage, syntax in a stack diagram, flags affected, related commands and helpful remarks.

Appendices contain Tables of Error and Status Messages, Units, System Flags, and Reserved Variables.

Stock #2289, HP 48 Pgmr's Ref Manual, 504p softbound.....$19.95

48 Insights, Part I
Principles and Programming

by William Wickes

If you do serious programming on the HP 48, this book is for you

We are in luck, for sure—the world-expert on the HP 48 , Dr. Wickes, is also an excellent expositor. He writes clear and complete explanations that you can quickly understand and put right into your own programming.

Look at these chapter titles:

1. Introduction
2. Understanding RPN
3. Objects and Execution
4. The HP 48 Stack
5. Storing Objects
6. Methods
7. Customization
8. Problem Solving
9. Programming
10. Display Oprtns/Graphics
11. Arrays and Lists
12. Program Development

(Part II will be published later; it will cover applications at a lower level.)

Stock #2322, 48 Insights, Part I, 381p wirebound $25.95

The HP 48 Handbook
The programmer's how-to and reference book

by James Donnelly

If you intend to make your 48 dance and sing, this is for you. It condenses the 1400 page of Owner's and Programmer's Reference Manuals into 198 pages of concise, convenient tables, tips and facts. There's also a chapter on the Solve Equation Library—functions, commands, applications.

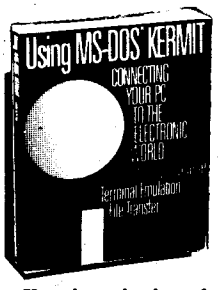
Covers objects/names/constants, memory organization, graphics, statistics, data transfer, menus, user keys, programming, system opera-tions, printer control, units, message tables, character codes, flags, alpha keyboard.

Complete index of commands and functions, with a bonus (54 pages!) of stack diagrams for all commands and functions.

Stock #2246, The HP 48 Handbook, 195p wirebound.....$19.95

Using MS-DOS Kermit

by Christine Gianone



How to connect your HP 48 to the World, step-by-step

Say *hello* to Compuserve, Dow Jones, MCI Mail, BBS, DIALOG, Telenet, TYMNET—*hello* **to your desk PC, to your corporate mainframe.**

"Now MS-DOS Kermit has the book it deserves... for the average PC user—a person who doesn't care how Kermit works, but who simply needs results...Useful examples appear on nearly every page, so you can build your confidence and skill . . . Once the material is mastered, the book remains a thoughtfully organized and valuable reference...the tables alone are worth the price of the book." Frank da Cruz, *Columbia University*.

"Covers all the topics needed to start new users easily, and it does it in a natural progression . . . The pace is a lot faster than readers will realize, mostly because the writing is skillful . . . often entertaining and always to the point. This is a terrific book!" says Joe Doupnik, *Utah State University*.

5¼" disk bound into book, plus coupon to send for 3½" disk—includes HELP, latest updates for version 3.0, graphics and printer routines and several automated DEMOs.

Stock #2448, MS-DOS Kermit, 244p, 5¼", softbound $29.95

Did you know that Kermit, in addition to naming a TV frog, is the Celtic word for "free" (which this program is)?

Kermit

by Frank da Cruz

Learn about the file-transfer protocol that's built into your HP 48SX—here's the definitive book, written by one of the original codesigners, published by DEC, with a Forward by Donald Knuth.

Covers everything from History of Kermit and an explanation of what a file transfer protocol does, plus detailed instructions for its use, to an informal description of the protocol itself (in C). Case studies guide you in coping with your own computer and data.

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HP 41CX

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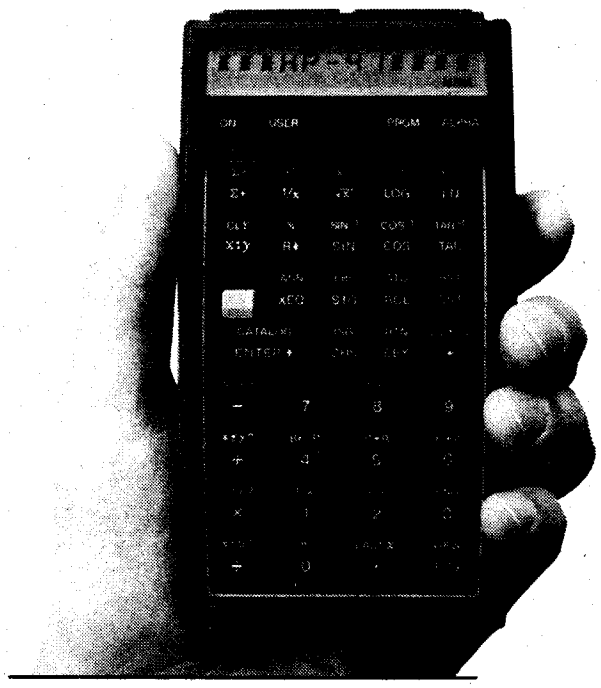

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- **RPN Logic:** you see intermediate results of calculations, recover from errors easily.
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Stock #HP41CX, List $249 ..... $184.95

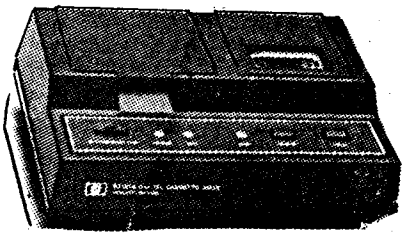
NOTICE

Hewlett-Packard has discontinued the sale of the HP 41CV/CX (they are no longer cost-effective to manufacture). They will continue to offer Application Pacs, Supplies and Support for the HP 41 during the next 5 years.

EduCALC now has stock of the HP 41CX and you can expect us to have one for you as long as anyone does. Nevertheless, we encourage you to assess your future requirements now and to place your orders accordingly.

Digital Cassette Drive

HEWLETT PACKARD



The Digital Cassette Drive uses a digital-quality mini-cassette capable of storing up to 128K bytes of information. Files can be located by name easily on this cassette drive. Rewind time is under 30 seconds and read/write operations are executed at 9 inches per second. Search speed is 30 inches per second.

All tape movement is under microprocessor control. Buffer space is provided in the Drive for temporary storage of directory information to help minimize access time and tape motion. The HP82161 can locate files when under program control. It also features STANDBY mode, enabling an HP-IL controller to turn the Drive on or off remotely. This unique feature helps extend system battery life and allows for system operation in remote applications.

The Drive uses a two-motor system to move the tape past a two-track magnetic head specially designed to resist data alteration due to externally generated magnetic fields. Owner's Handbook included.

Stock #82161A [Digital Cassette Drive] List $250 ..... $189.95
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Stock #82176-10 [10 Data Mini-Cassettes] $88.95
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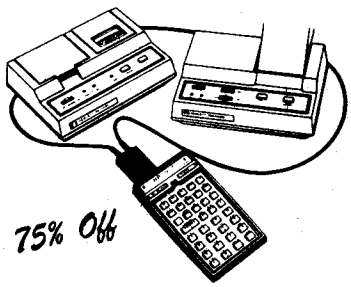
Stock #82059D [Recharger] $18.95

HP IL Module

HEWLETT PACKARD



The HP IL Interface Module plugs into any one of the four ports in the HP 41, connecting your handheld computer family of HP IL peripherals and instruments. The module gives your HP 41 control of up to 30 devices on the loop. There are three function sets supplied by the HP IL Module: printer, mass storage, and general input/output (I/O). It includes such functions as Accumulate column into print buffer, List program lines, Print y-axis, Plot function interactively, Print stack, Remove stored file, Store program onto medium, Copy all storage registers into data file, Set interface to auto mode, Input status information from selected device, Set all devices to low power state, Trigger all devices set to respond and 43 more. Owner's Handbook included.

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3½" Disk Drive—this is the latest model, and it comes with everything: rechargeable battery, recharger, HP-IL cable, manual. List price new is $695, so you buy this used unit at a **whopping 64% discount!**

Additional Savings—HP-IL Module for your HP 41 included FREE.

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IL ThinkJet Printer—this is the latest production model that is so popular. List price new is $495, so you can have fast, quiet IL printing now at this **giant 68% discount!**

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HP 75D Package—loaded with extras! You get the HP 75D computer, plus the 8K RAM Expansion Module that plugs into its battery compartment, plus the Expansion Pod that adds a modem, barcode decoders, and a huge 64K RAM disc full of super-fast memory, plus the Barcode Wand! That's a lot, so I'll display the list here for you (remember, you get the whole package)—

1. (HP 75) Portable Computer
2. (HP 82700) 8K RAM Memory Module
3. (HP 82718B) Expansion Pod
4. (HP 92267B) Barcode Wand

HP 75D is 5 × 10 × 1¼ in, 26 oz, with 16K RAM built in. It has a card reader, wand interface and port, touch-type keyboard (the keyboards on these units have never been used). Comes with manual, battery pack and adapter/recharger, IL cables.

Expansion Pod fits as a cradle on your 75, has 300 baud, direct-connect modem and decoders for 3 of 9 Code and Code 11.

Barcode Wand is medium resolution (0.19 mm min width of narrow element) for code produced on dot-matrix printers.

The total list price for this gear new is $2715—so your cost is **discounted an unbelievable 90% ! ! !**

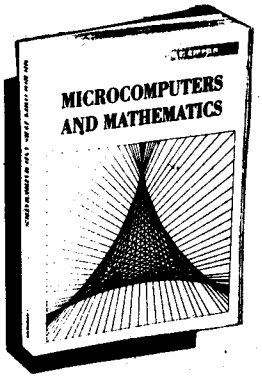
Stock #HP75DU [Used Computer Package] $279

See page 59 for supplies

Math Software & Bookware

Microcomputers and Mathematics
by Bruce/Giblin/Rippon

Calculus on your Wizard? Fractals on your PC-E500?



Experiment! Discover math for yourself, on any BASIC machine!

These programs are tiny—and powerful! You'll do your own investigations of continued fractions, probabilistic number theory, solving equations, evolutes, large primes and Mersenne numbers, approximating π and e, differential equations. There are even Möbius, quadratic and exponential sequences!

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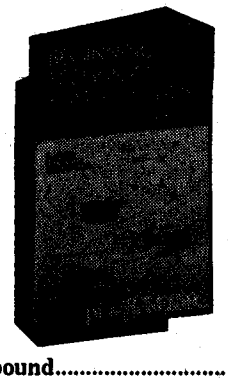
Beginning Technical Mathematics Made Easy
by David Brianza



Now you can learn how to do arithmetic, algebra, geometry, and more, on your own!

You'll like physicist Brianza's methods—he teaches without jargon and takes nothing for granted—this is math the way it should be taught.

Demystifies equations, theorems, scientific notation, logarithms, graphing, . . . Lots of examples and exercises—use them to learn, or just to brush up!

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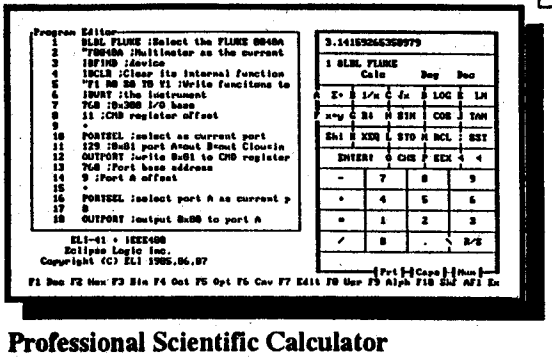
CALC-41

Sparcom



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Run any program ever written for the HP 41 on your PC or write HP 41 programs on your PC and run them on your calculator. Majorizes Hewlett-Packard's HP 41CX, with unlimited per program file and an unlimited number of files, 30 nested levels of subroutine calls, 500 data storage registers with full indirect access, enter and view data in decimal, binary, octal or hex modes, single-step debugging, user key reassignments.

But all this is on your PC/Compatible, so every thing can be transferred to/from disk, viewed in large windows on your monitor (in living COLOR if your monitor does that), plus it happens much faster—faster still with an 8087 coprocessor (program will use it, but doesn't require it). Pop-up option included free. Requires DOS 2.0 or higher. Mouse supported.

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Stock #831G [80387, 16 MHz].....$459.95

Introduction to Linear Algebra
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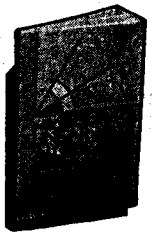

An introduction, for math and science majors as well as statistics students—written especially for those who have only a college algebra background.

Vector spaces and linear transformations, linear equations and determinants, characteristic roots.

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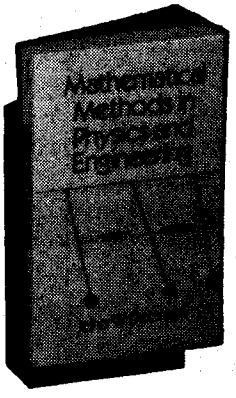
by John Dettman



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Math Software & Bookware

Astronomy on the Personal Computer

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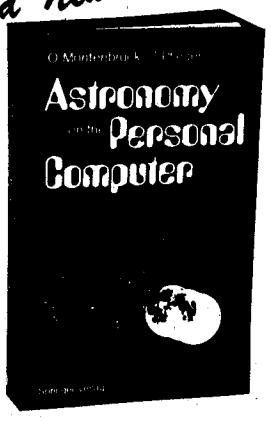

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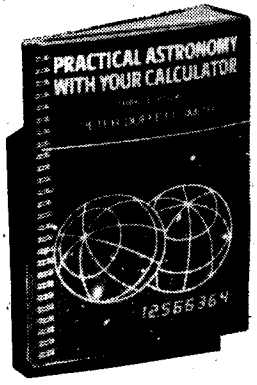
by Peter Duffett-Smith



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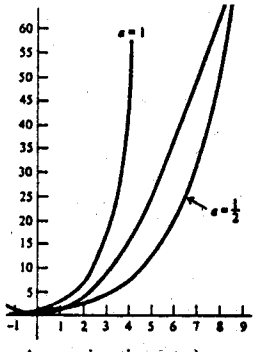
2nd edition

by Richard Hamming



Well-known mathematician Richard Hamming ("the Hamming code," "the Hamming distance," and "Hamming window," etc.) suggests that **the purpose of computing is insight, not merely numbers.**

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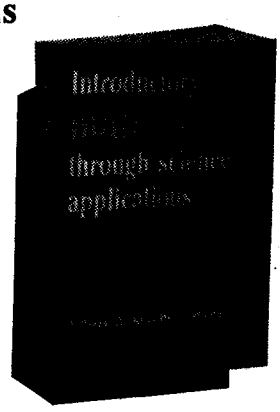

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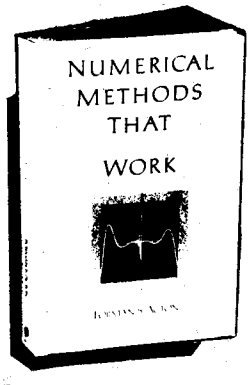

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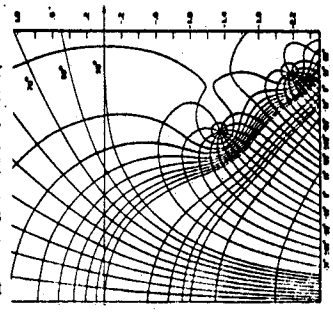
Handbook of Mathematical Functions

by Abramowitz/Stegun



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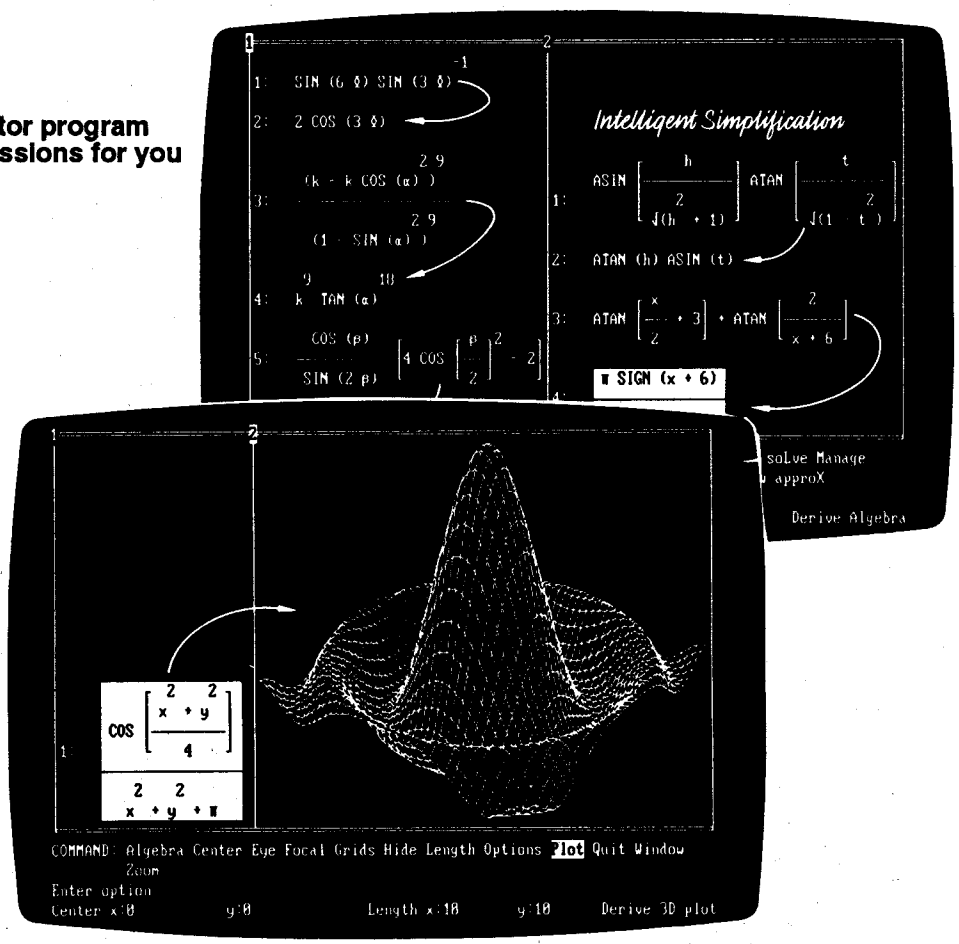

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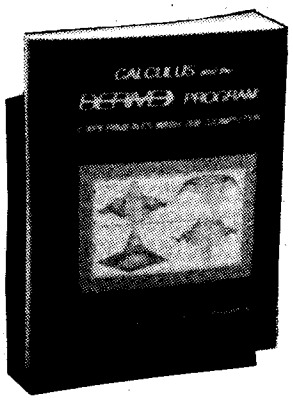
*May be downloaded from your PC to HP 95. Requires 512K RAM card. ROM card will be sent FREE when available in November '91.

Calculus and the Derive Program 2nd edn

by Gilligan/Marquardt



22 lab experiments on your computer with Derive 2.0—a tutorial and a workbook, for the program and for the mathematics, whether or not you're a student. (This is the calculus lab manual mentioned in the Derive Manual, p 224.)

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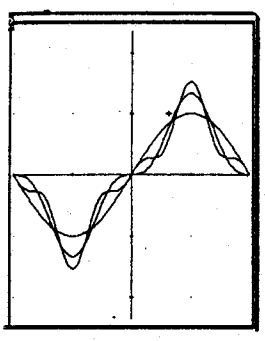
Exploring Math from Algebra to Calculus with Derive

by Jerry Glynn



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Math Software & Bookware

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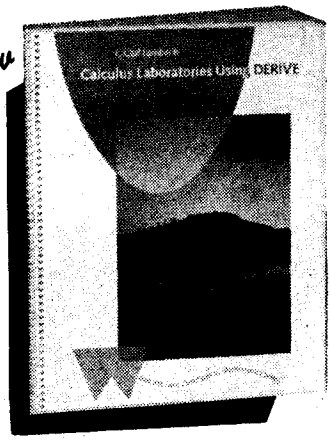

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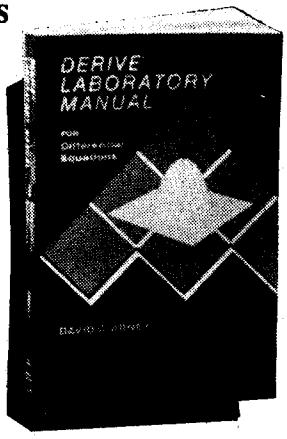

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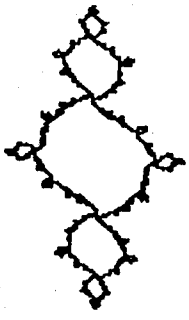

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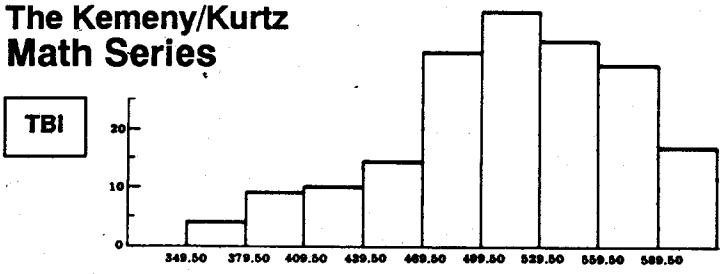

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by Richard Nelson

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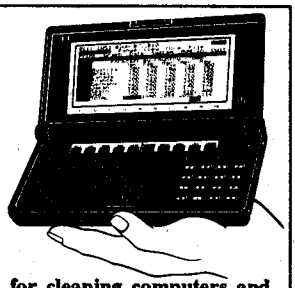

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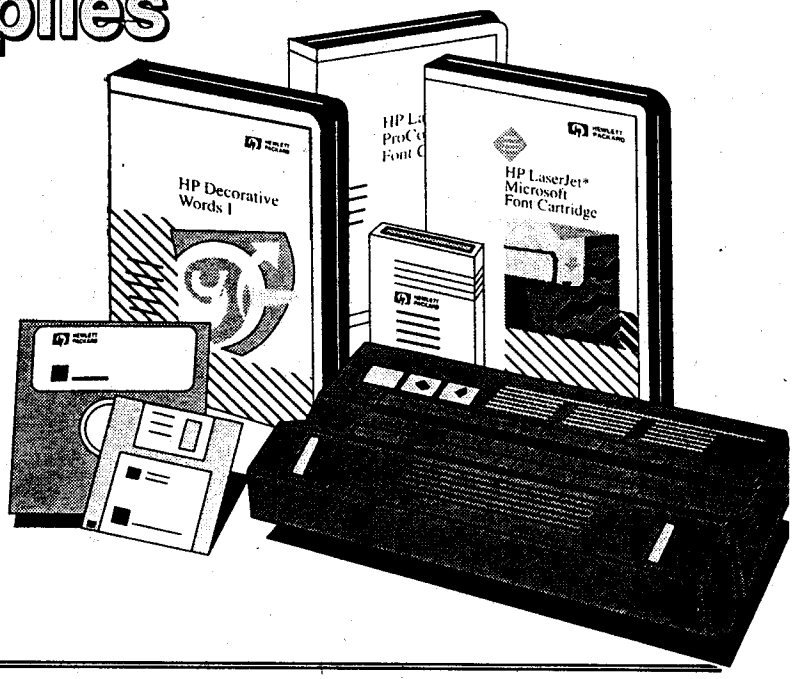

HP Plotter Supplies

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Pen and Plotter compatibility (Use the guide below to select the pens best suited to your plotter.)

Plotter model no.	Fiber-tip pens		Disposable drafting pens	Refillable drafting pens		Rollerball pens
	Paper	Transparency	Long body	Short body	Long body	Long body
7220, 7221, 9872	•	•		•		
7225	•	•				
ColorPro 7220, 7470, 7090	•	•				
7475	•	•		•		
7550, DraftMaster Series	•	•	•		•	•
DraftPro Series	•		•		•	
7580, 7585, 7586	•		•		•	•

Plotter Paper and Film — Glossy Paper: use with HP-7220, 7221, 7225, 7470, 7475, 7550, Color-Pro printers & with transparency pens

Stock #17900G [A-size, 8½" × 11"; 100 sheets] List $16 ..... $14.10
Stock #17902G [B-size, 11" × 17"; 100 sheets] List $28 ..... $24.65

Non-Glossy Paper: for all HP plotters; use paper pens.

Stock #17800P [A-size, 8½" × 11"; 50 sheets] List $5.50 ..... $4.85
Stock #17801P [A-size, 8½" × 11"; 250 sheets] List $13 ..... $11.45
Stock #17803P [A4 Metric size; 250 sheets] List $13 ..... $11.45
Stock #17804P [B-size, 11" × 17"; 50 sheets] List $10 ..... $8.80
Stock #17805P [B-size, 11" × 17"; 250 sheets] List $26 ..... $22.90

Transparency Film — A-size, 8½" × 11", 50 sheets, for plotter listed below

Stock #17700T [HP-7470, ColorPro Plotters] List $50 ..... $44.00
Stock #17702T [7220, 7221, 7225, 7475, 7550, 9872] List $50 ..... $44.00

Vellum, 100% rag with coated surface

Stock #9280-0601 [A-size 8½" × 11"; 150 sheets] List $17 ..... $14.95
Stock #9280-0602 [B-size 11" × 17"; 150 sheets] List $30 ..... $26.40

Polyester Film, 3-mil coated translucent media

Stock #9280-0605 [A-size 8½" × 11"; 50 sheets] List $20 ..... $17.60
Stock #9280-0607 [B-size 11" × 17"; 50 sheets] List $32 ..... $28.15

Media and pen compatibility

Use the guide below to select the right type of plotter pen for your application.

Media type	Fiber-tip pens		Drafting pens		Rollerball pens
	Paper	Transparency	Refillable	Disposable	
Plotter paper	•			•	•
Transparency film		•			
Glossy paper	•	•			
Tracing bond					•
Vellum			•	•	
Polyester film			•	•	

Fiber-Tip Pens

Find your stock number and color below; then fill in order blank like sample here:

Stock #xxxxxx [Fiber Tip Pens, (color), 5 pen package] List $7 ..... $6.15

Transparency Pens 0.3 mm	Transparency Pens 0.6 mm	Paper Pens 0.3 mm	Color 0.7 mm	Color
#17725T	#17726T	#17825P	#17826P	Black
#17727T	#17728T	#17827P	#17828P	Green
#17729T	#17730T	#17829P	#17830P	Aqua
#17731T	#17732T	#17831P	#17832P	Blue
#17733T	#17734T	#17833P	#17834P	Violet
#17735T	#17736T	#17835P	#17836P	Brown
#17737T	#17738T	#17837P	#17838P	Yellow
#17739T	#17740T	#17839P	#17840P	Orange
#17741T	#17742T	#17841P	#17842P	Red
Multi-color, 5 pen package				
#17743T	#17744T	#17843P	#17844P	Red-Violet
#17745T	#17746T	#17845P	#17846P	Bl/R/B/G/Y
#17747T	#17748T	#17847P	#17848P	Bl/B/A/G/Y
#17749T	#17750T	#17849P	#17850P	R/O/Br/Y/Rv

Disposable Drafting Pens for vellum or paper

Find your size and color in chart below—you'll see 2 stock numbers in the corresponding box. The upper, 6-character stock number is correct for the newer SurePlot version; both pen versions come 4 to a package at the same price—please fill in your order blank like the sample here:

Stock #xxxx-xxxx [Drafting Pens, (size & color); 4 in pkg] List $22 ..... $19.35

Color	0.25mm	fine .35mm	med .50mm	wide .7mm
Black	#17762V #5061-7619	#17763V #5061-7562	#17764V #5061-7620	#17765V #5061-7572
Blu/R/G/Blk	#17932V #5062-1557	#17933V #5061-7566	#17934V #5062-1571	#17935V #5061-7576
Or/Ye/Br/Vi	#17942V #5062-1558	#17943V #5062-1559	#17944V #5062-1572	#17945V #5062-1573
Single Color Packages of 4 available in 0.35mm only		Blue #17773V #5061-7563	Green #17783V #5061-7564	Red #17793V #5061-7565
Multi-width Package of 4, available in Black only		0.25/0.35/0.50/0.70		#17760V #5062-1556

Disposable Drafting Pens for polyester film, 2 pens in pkg

Stock #5062-1592 [0.25mm, Black] List $22 ..... $19.35
Stock #5062-1593 [0.35mm, Black] List $22 ..... $19.35
Stock #5062-1594 [0.5mm, Black] List $22 ..... $19.35
Stock #5062-1595 [0.7mm, Black] List $22 ..... $19.35
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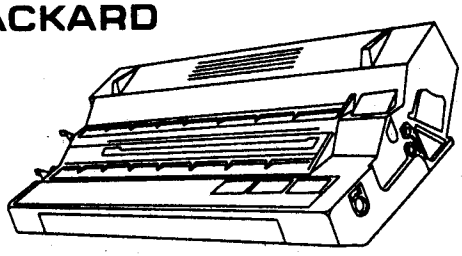

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Stock #22709A [DW Soft Font Collection] List $195 ..... $171.60
Stock #C2109B [DJ 500 Global Text Font Cart] List $79 ..... $69.50
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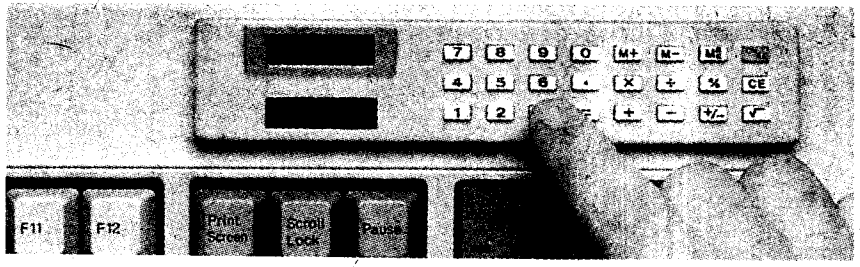

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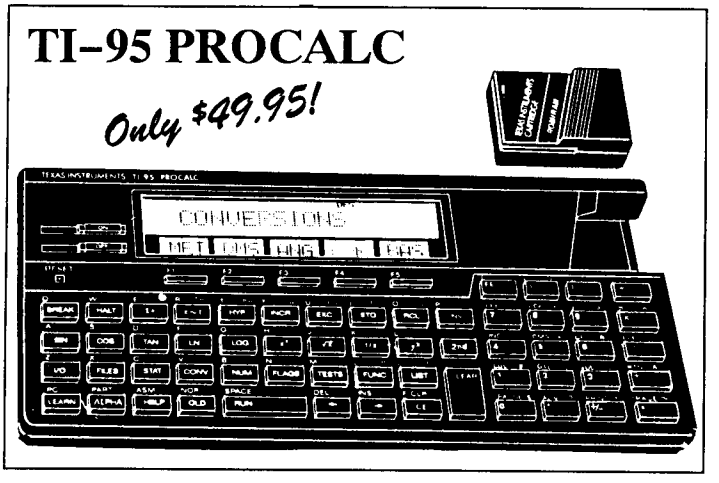

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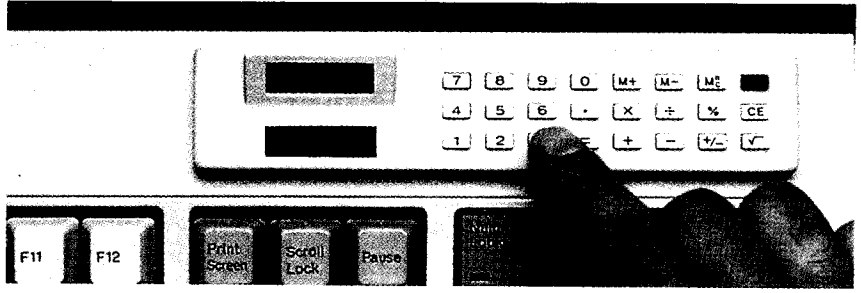

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