

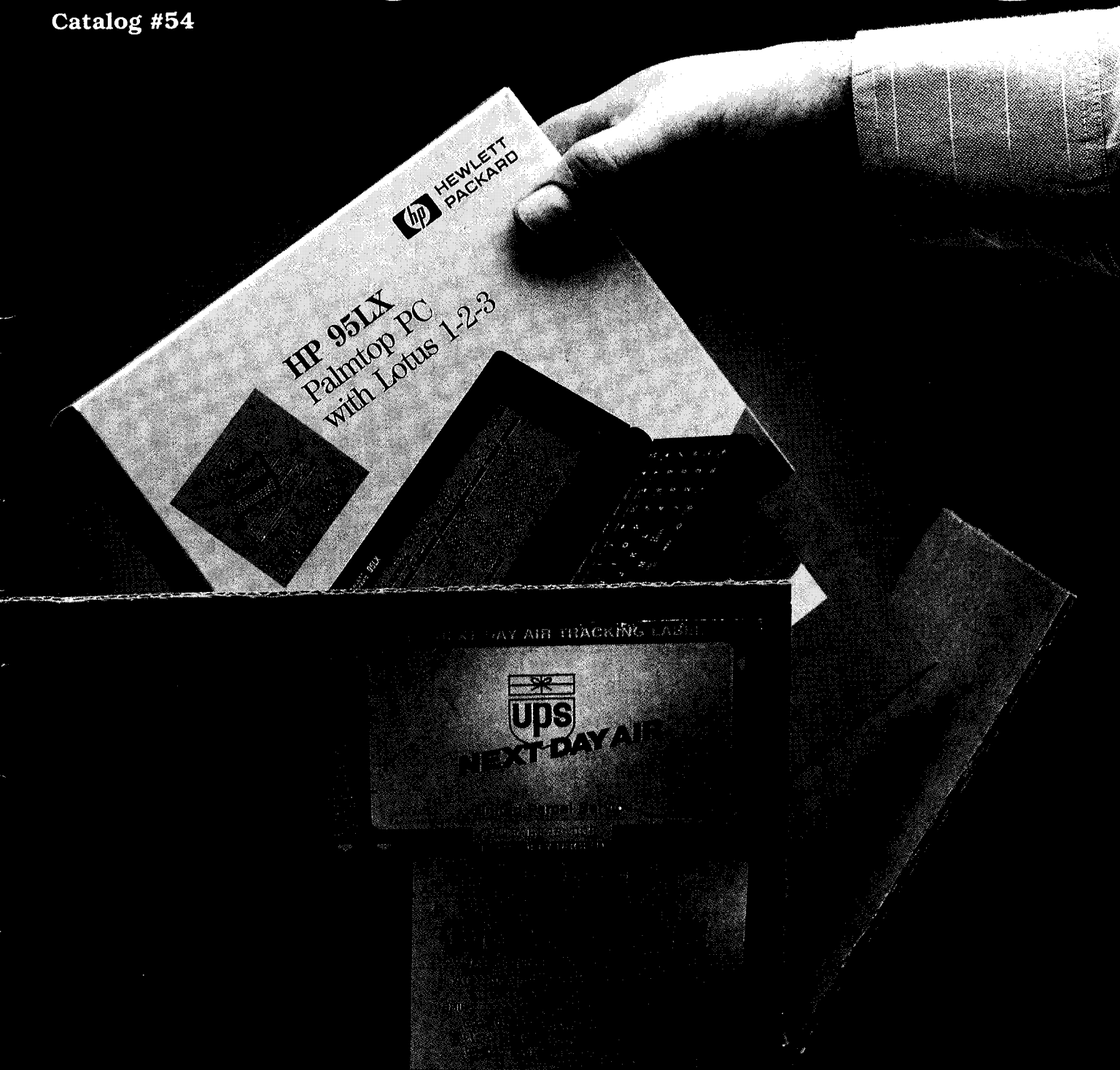
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Catalog #54



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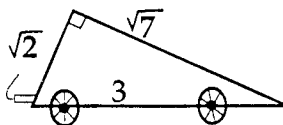
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*Prices Effective
December 13, 1991*

1992 Mathematics Calendar

by Theoni Pappas



Put a little math into every one of your days — each day's problem has its answer in that day's date, but these problems vary from trivial to impossible, and every one will start you thinking.

Opposite each month's calendar an intriguing topic is explored and illustrated—topics like Codes and Ciphers, Hyperspace, geometric Treasures from the Sea, . . . a dozen fascinating topics.

The Mathematics Teacher reviewed it as, "Attractive, useful, varied — will keep you reminded of the many facets of mathematics . . . interesting, artistic, educational. . . I want my copy, you will too. This calendar is becoming a classic."

Also available in Engagement Calendar form, with room to write in your appointments, and in a Children's version.

Give a gift every day of the year—give a math calendar!

Stock #2538, Mathematics Calendar\$7.95

Stock #2539, Math Engagement Calendar\$8.95

Stock #2540, Children's Math Calendar\$7.95

Which palmtop for you—Atari, Casio, HP, Poquet, Psion or Sharp?

We sell them all—here's how we see their differences.

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 Poquet PC's advantages (see page 21), its 80 character by 25 line display and near laptop size keyboard, will outweigh its larger size and higher price. Another Poquet 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.

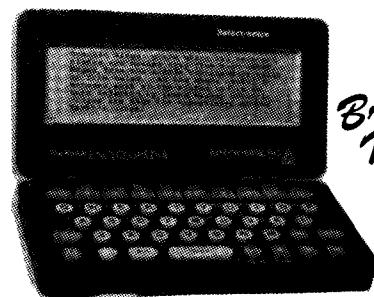
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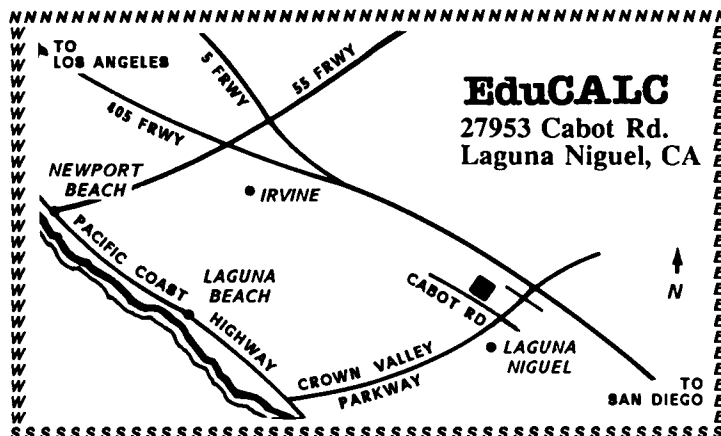
But there's more—charts, tables, were complete texts of important documents like the Declaration of Independence. And the FLASH CARD button will choose a topic at random, to quiz you or your friends, or to surprise you with new thoughts.

And there's still more—a built-in TIMELINE lets you select any period over 6000 years, to navigate backward and forward in time. TABLE OF CONTENTS. BOOK-MARK saves up to 20 places for your instant recovery. NOTEPAD. CLOCK, with ALARM for travel. CALCULATOR with memory.

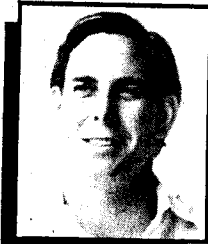
Rugged clamshell case is 7/8 x 6 x 3 3/8 inches when folded. Manual, 4 AAA batteries included; 1 yr warranty.

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New Gear for your HP 95 —
an inexpensive portable modem, software for doctors, more . . . and more!
Check it out on pages 15 - 20; also, see letter on opposite page.



Here's who you'll talk to at EduCALC:



Mike



Jennifer



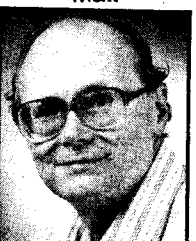
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Matt



Carrie



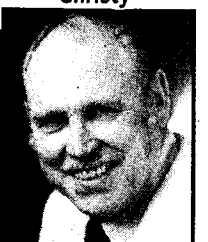
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Marta



Kaycee,
EduCALC's official greeter

EduCALC

27953 Cabot Road
Laguna Niguel, CA 92677

Winter, '92

Dear Reader,

NEWS! Just as this catalog was going to press, I got assurances that the startling new Motorola NewsStream Receiver is on its way to us. This is a tiny radio receiver that you can attach to your HP 95 to have e-mail, appointments and Lotus spreadsheet updates sent to you wherever you are.

This receiver is a stand-alone unit about the size of a cigarette pack, so it weighs only 3½ ounces and goes in a shirt pocket. It lets you know that you have a message by beeping and flashing a light (the receiver itself can hold up to 56 messages and 32K of data).

It fits together with your HP 95 neatly into an HP-designed cradle so you can carry the integrated system in a Daytimer-type notebook, a briefcase or a purse.

This system is automatic, instantaneous and wireless. It knows where to put your incoming message, too: in your HP 95 Appointment Book, or in your Phone Book, or in a Lotus spreadsheet.

People can send you messages in several ways: through a city, regional or national paging service, or through Motorola's new national service, EMBARC. It will also work with proprietary systems within your building, mall or complex.

I will have some in stock any day now, and the cost is low. The entire new system, receiver and cradle and software, lists for under \$400, and I'll get it for you for even less.

Call now for all the details . . . with technical info from EduCALC, you'll never be out of touch again!

Sincerely,

Jim
Jim Carter
Manager



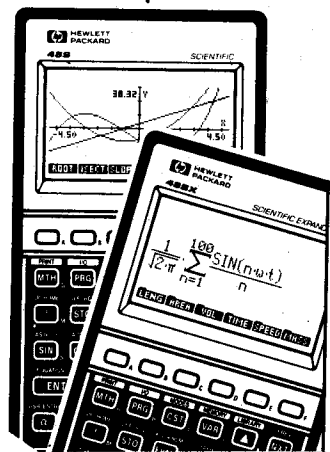
P. S. I've hidden a coupon somewhere in this issue—find it now and enter my contest for a FREE calculator.

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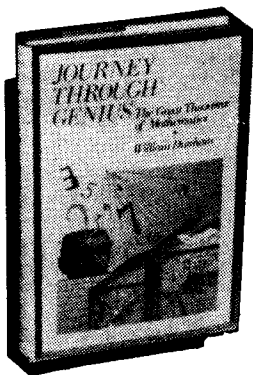
Journey through Genius

by William Dunham

Isaac Asimov says, "It is mathematics presented as a series of works of art . . . mathematics by lightning flash."

A "great-theorems" course for the layman (most of it can be read with a high-school background; a little easy calculus is used with explanations in one chapter). One dozen really important theorems are culled from 2300 years' genius; each is carefully explained with the topic's history, the mathematician's biography, and a clear and compelling explanation of just why the theorem is important and how it is beautiful.

Stock #2465, Journey through Genius, 300p hardbound \$19.95



Serendipity

by Royston Roberts

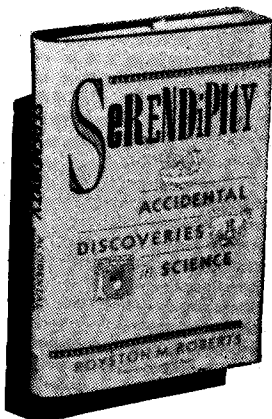
Accidental Discoveries in Science

Trust me—if you enjoy science, this will be your best read of the year!

The trouble with putting this book by your bedside is that these stories are like potato chips—you'll want to read just one more.

36 stories of discovery—by Archimedes, Nobel, Pasteur—about pulsars, indigo, penicillin—from chemistry, archaeology, medicine—through dreams, accidents, bombs—including Nylon, Velcro, Post-its, Ethyl gasoline, safety glass, X-rays, Pompeii—plus more and more.

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In the Stream of Stars

edited by
Hartman/Sokolov/
Miller/Myagkov

New

The Soviet/American Space Art Book with Historical Perspective by Ray Bradbury

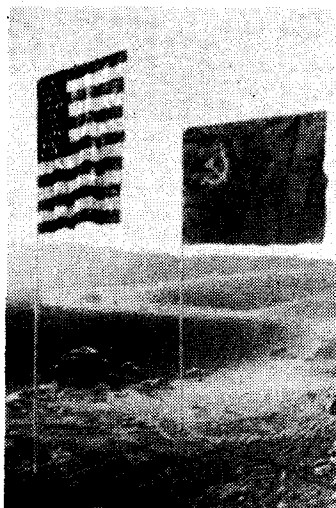
Now you can celebrate the end of the Cold War—beautifully—on your own coffee-table. Join these partners in a new vision, to the stars and beyond.

From Alexei Leonov's painting of his own historic spacewalk to Alan Bean's stirring portrait of astronauts on the moon—nearly 200 dazzling works in all—here is an extraordinary collaboration of Russian and American space artists.

Coming, fittingly, on the heels of the August, 1991, Revolution, this collection of fine-art reproductions is nevertheless the product of a 4-year joint effort of The Soviet Artists Union and the International Association of Astronomical Artists.

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

Stock #2531, In the Stream of Stars, 183p hardbound \$29.95



Discovering Mathematics

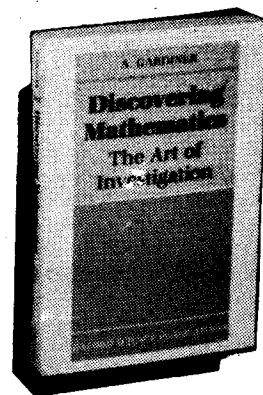
by A. Gardiner

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No standard methods here, and no standard problems. Instead, you'll find out how to explore unfamiliar, fresh ideas and chance observations, how to pursue them through various stages until the light begins to dawn, and how your discovery process invariably throws up interesting questions you would otherwise never have thought of.

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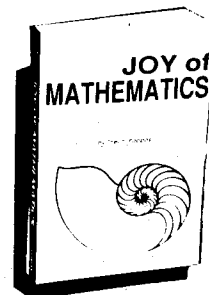
More Joy of Mathematics

by Theoni Pappas

Explore math all around you—in nature, science, architecture, philosophy, history, literature—ideas, puzzles, games, graphics, math news.

Pappas's Joy of Math was chosen by two book clubs. You'll enjoy her easy-to-read style as she shows you the beauty of math.

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Conquering Mathematics from Arithmetic to Calculus

by Motz/Weaver

New

"a feast for the intellect" — Publishers Weekly

"a must for those who want to find what Mathematics is about" — Marcelo Alonso (Prof., Florida Inst. of Technology)

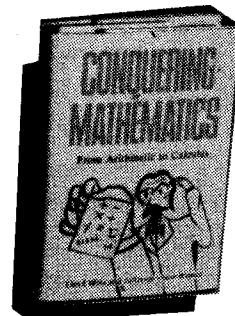
"allows us to arrive painlessly at Higher Math"—Hugh Downs, (Host of ABC's 20/20)

After two wonderful books explaining physics, Motz and Weaver return to demystify math.

Straightforward and accessible, they lead even fearful readers through the fundamentals of practical arithmetic—even to transfinite and imaginary numbers.

Always practical, they explain the derivative with Newtonian physics, algebra with continued fractions.

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Theories of Everything

by John Barrow

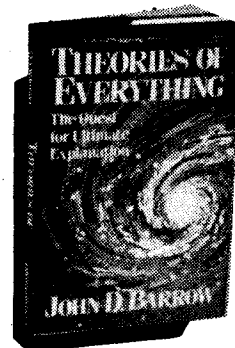
New

The Quest for Ultimate Explanation

Not just a history of science, not just a popular report on recent research, not just a tour of unsolved riddles—astronomer Barrow gives you a reflective, intelligent description of what a single, unifying theory of physics would have to be.

The key lies in the remarkable effectiveness of mathematics. The author's eloquence and expertise make some hard physics easy and lead you through thickets of philosophy to a wonderfully broad, even galactic viewpoint.

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New

Exploring the Mathematics of Symmetry

Curious about how the world works? From a snowflake to a Bach partita, a triglyceride molecule to a Shakespearean sonnet, there is a handedness and a direction in the way things evolve and are put together. Find out about this scientific view of things, this intrinsic balance and order in everything—even, paradoxically, in fractals and chaos.

Stock #2488, Reality's Mirror, 286p hardbound.....\$19.95



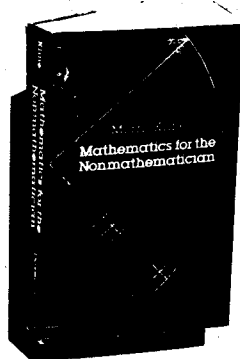
Mathematics for the Nonmathematician

by Morris Kline

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

Covers history, logic, numbers, parametric equations and curvilinear motion, differential calculus and the theory of probability. Describes Renaissance painting as an outgrowth of the understanding of mathematical perspective. Ranks nonEuclidean geometry with evolution as one of the "two concepts which have most profoundly revolutionized our intellectual development since the nineteenth century."

Stock #2124, Math for Nonmaths, 641p softbound.....\$11.95



Got a Doogie in your own house? Excite your 6 and 7 year-olds with Calculus, Infinite Series and Iteration Sequences

by Donald Cohen

24-minute videotape, *Infinite Series with 6 year-olds and up*, starts young people on important math, not to worry about making mistakes, look for patterns, try different ways, and have fun!

38-minute videotape, *Iteration to Infinite Sequences with 6 to 11 year-olds*.

Tiny book, *Calculus By and For Young People (ages 7, yes 7 and up)*.

All three teach calculator usage throughout, require only pencil, paper and graph paper, have infectious enthusiasm.

Large book of 8½ x 11 tear-out worksheets accompanies calculus text.

Stock #2444 (Infinite Series Videotape).....\$42.95

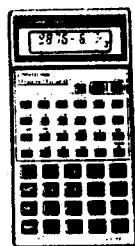
Stock #2445 (Iteration Sequences Videotape).....\$42.95

Stock #2446, Young People's Calculus, 177p spiralbound.....\$13.95

Stock #2463, Calculus Worksheets, 324p softbound.....\$22.95

Professional Measure Master II

Calculated Industries



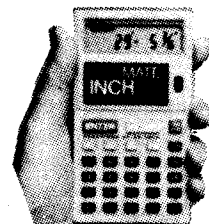
Top-of-the-line model—has all the functions of the Construction Master II except lumber estimates, and has also the full set of trig functions for complex construction and fabrication calculations.

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

INCH-MATE

The affordable
Foot/Inch/Fraction Calculator

Digitool



Indispensable if you use a tape-measure! Instant and accurate.

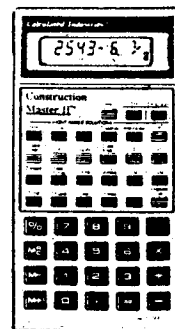
+, -, ×, ÷, square or square root, in Ft/In/Fraction to 1/16", or Decimal Feet or meters—convert back and forth! Finds diagonal or total rise with Pythagorean theorem. Memory.

USA-engineered with tough ABS case in high visibility yellow. Dust-resistant membrane under color-coded keypad. 1 year warranty.

Stock #DCINCH [Inch-Mate Calculator] List \$40.....\$33.95

Construction Master II Feet-inch Pocket Calculator

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

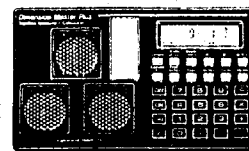
Make fast, accurate lumber estimates in board feet and dollars—for single boards, multiple pieces or the entire project. Wallet included.

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

Dimension Master Plus

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

Calculated Industries



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.

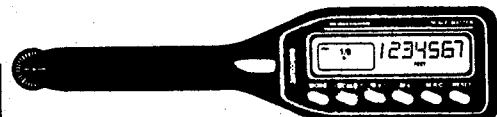
You enter dimensions through the sonic mode or from the keyboard, in feet/inch/fraction or in metric. Then you can easily find square or cubic measurements, or convert into different formats—feet, yards, meters, etc.

Manual, batteries included; 1-yr warranty.

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

Digital PLAN Measure

Calculated Industries



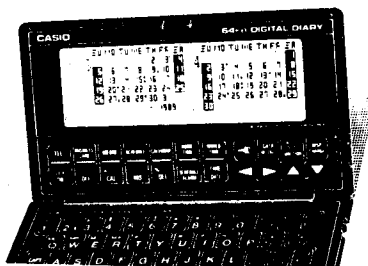
42 different scales built-in: 10 Architectural, 7 Engineering, 11 Metric, 14 Engineering/Map—plus, you can create your own custom scales, for unscaled plans or reduced prints.

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

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" x 2 7/8" and only 1/2" thick. Batteries included. 1 yr warranty. PC Link optional.
Stock #SF7500 [BOSS Diary] List \$240.....\$219.95

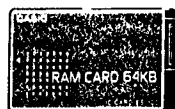
BOSS SF-8000 Diary

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 Mgmt/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

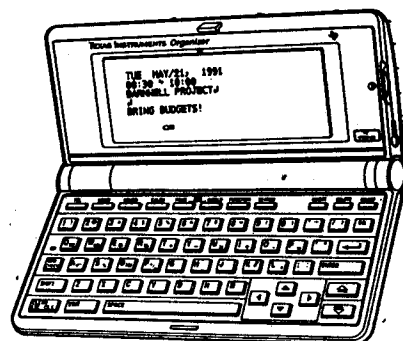
Link Interface: PC and MAC

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, 3 1/2" & 5 1/4"] List \$120.....\$99.95
Stock #FA130 [Macintosh Link, 3 1/2"] List \$120.....\$99.95

Informators™

PS-6200 Organizer

TEXAS
INSTRUMENTS



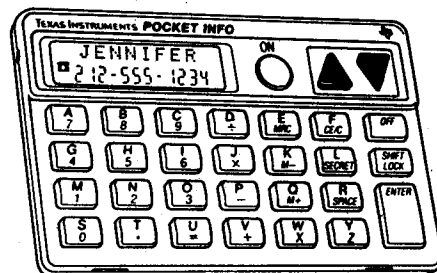
- Calculator
- Memo file
- Metric converter
- Time zones
- Telephone directory
- Schedule organizer
- Digital alarm & reminder
- Big, legible display

Everything you wanted in an informant, 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

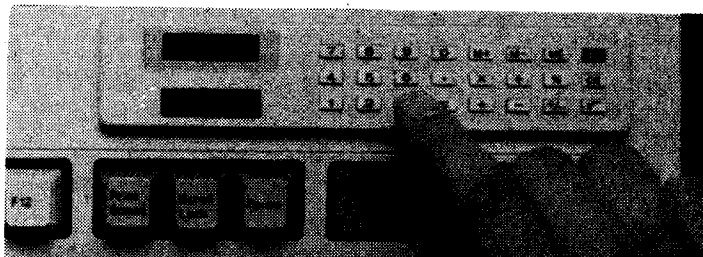
- Stores up to 55 phone numbers, credit-card numbers or important dates
- One letter per key for easy entry
- 2-line display
- 4-function calculator

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

Calculator batteries, stands & cases—see pp 25-27

Keyboard Calculator

New



- Calculate without interrupting your computer program
- Lowest cost—simple and familiar—1 yr warranty
- Solar powered with battery back-up, 8-digit display

Curtis

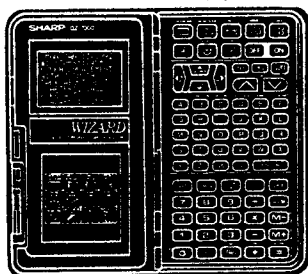
Stock #KC1 [Keyboard Calculator]\$8.95

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 × 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 × 3 3/4 × 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.

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 5/4" and 3/4", 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 \$249.95

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

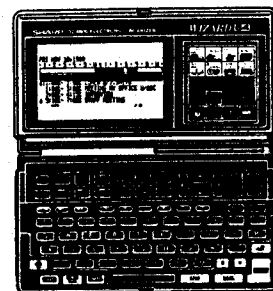
- big 40 character by 8 line display
- big QWERTY-style keyboard
- new Outline function makes this the *World's Smallest Word Processor*

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

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 7×5×1½ inch powerhouse fits in your briefcase. 90-day warranty.

Stock #LM2000 [Language Master] List \$150 **\$119.95**

The Spelling Ace

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**

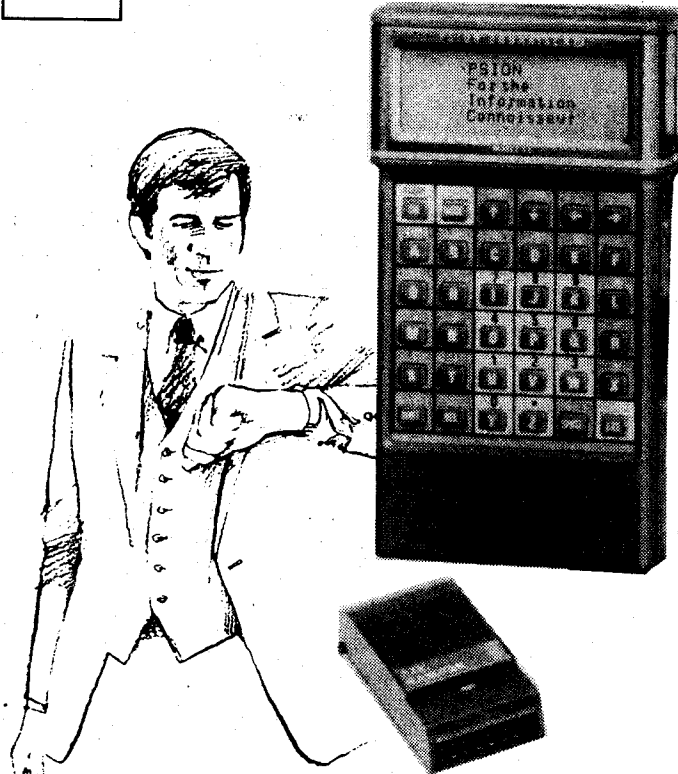


*Available
April 1992*

Organizer II

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

Psion



A 'dream' portable, battery powered and calculator sized ($5.6 \times 3 \times 1.1$ 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.

DATAPAKS: Perform a role similar to floppy disks on desk top computers and up to two Datapaks plug directly into the back of Organizer II. The use of Datapaks adds considerably to the power of Organizer 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 pre-programmed 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.

Informators™

The Concise Oxford Spelling Checker: look up the spelling of 24,000 words. The Spreadsheet Pack: a full-function spreadsheet, 26 columns \times 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

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

BARCODE READER auto discriminates between UPC, CODE 39, 2 in 5 interleaved, EAN8 and EAN13. Includes Organizer 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, Organizer 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.

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 #883L, Organizer II Literature	Free

Calculator batteries, stands & cases—see pp 25-27

Using and Programming the Psion Organizer II

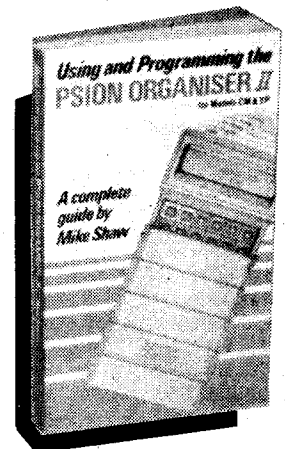
by Mike Shaw

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.

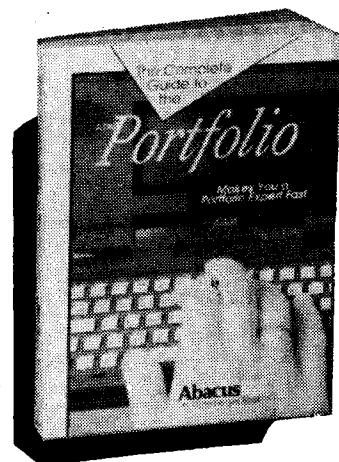
Optional Smart Parallel Interface connects Portfolio to standard parallel printers and to your PC/compatible office computer—includes file-transfer software.

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 \$8.89

The Complete Guide to the Atari Portfolio

by Michael Mueller



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

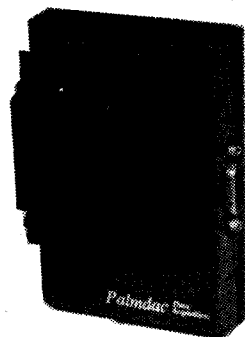
Palmdac Data-Acquisition Peripheral System for Portfolio

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.

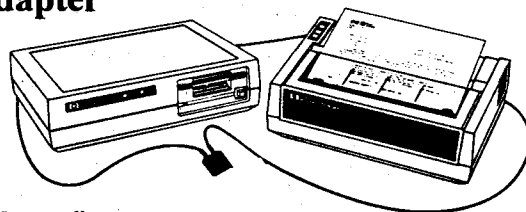
Control software comes on PC disk to download; you can keep it on a RAM card (and use cards to buffer data, too). Write applications in MS C or QuickBASIC.

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



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

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.

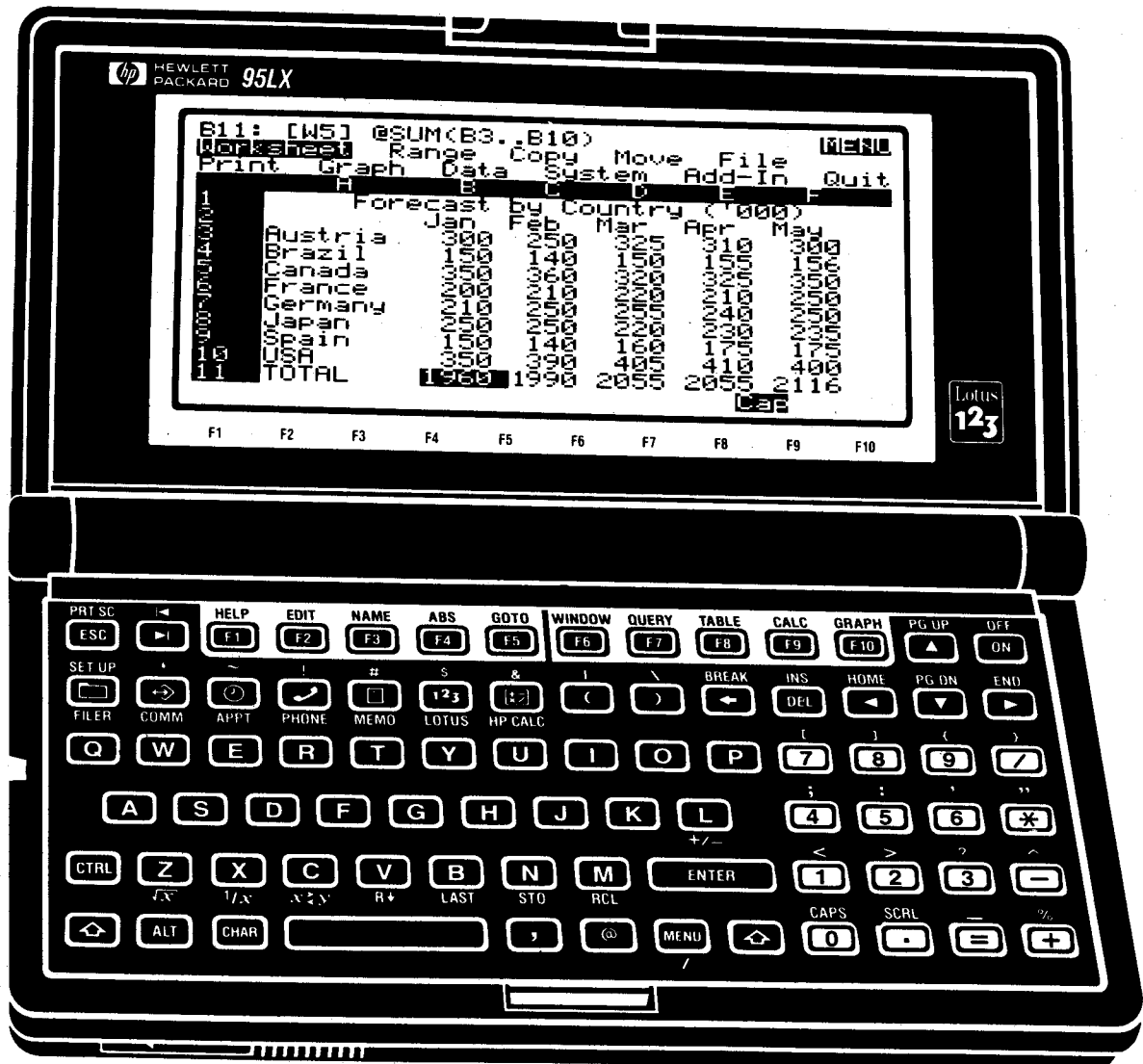
Ron Burnham, Biloxi

HP 95LX

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!

123

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: Always™, 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 Financial 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!

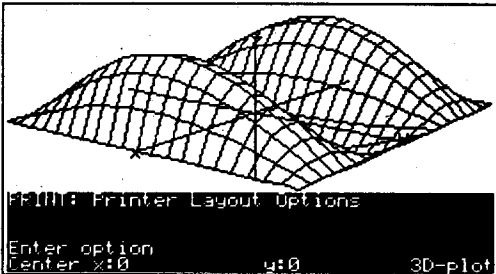
Note the *currency conversions* and the quick *plotting* and *root-finding* in this list of powerful features:

- 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

Melbourne: 10/16/92 4:55 pm
Press ENTER to select highlighted city

City:	Country:	GMT Offset:
Melbourne	Australia	+10:00
Malilla Island	Spain	+01:00
Memphis	United States	-06:00
Mexico City	Mexico	-06:00
Midway Island	United States	-11:00
Milan	Italy	+01:00
Milwaukee	United States	-06:00
Minneapolis	United States	-06:00
Mogadishu	Somalia	+03:00
Monaco	Monaco	+01:00

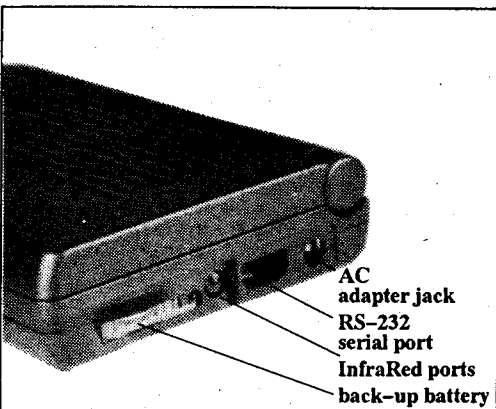
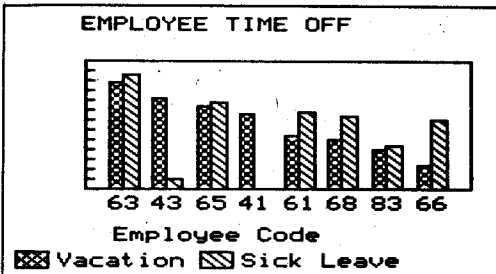
Help Delete Goto Find Insert



Time Value of Money - case 1

Number of periods.... N	=	360.00
Annual interest..... I/YR	=	11.50
Present value..... PV	=	189,000.00
Future value..... FV	=	0.00
Payments per year.... P/YR	=	12
Begin/End mode..... B/E	=	END
PMT = -1,871.65		

Abort B/E N I/YR PV FV
Help Iconv P/YR B/E PMT FV



- 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, specifications 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 [F1] from any application by pressing [F1]
- 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 keystrokes 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

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 partitioning 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 appointment 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 US Robotics

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 weighs 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 \$499.

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.....\$499

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 **P**rogram

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.

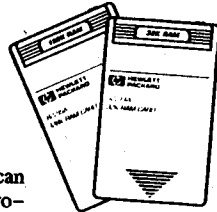
If you prefer to keep your old instrument until your new HP 95LX arrives, just send it to us later, along with its Owner's Manual and a copy of the sales receipt for your new machine—we'll send you your refund right away.

Here's where you find...

Accessories	15
Cables/Interfaces	15
Peripherals	17
Software	17
Programming Aids	19
Bookware	20

Accessories

Plug-in RAM Cards from 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	\$129.95
Stock #F1003A [512K RAM Card] List \$400	\$249.95

ACE card RAM—

Lo-price, Hi-capacity
512K—1M—1.5M

New

ACE Technology

Free software included



- PCMCIA specs—fits HP 95, Poqet PC, NEC Ultralite ...
- Pre-Formatted—and pre-loaded with FREE software—games like Chess, HP Tetris and Invaders, plus utility programs including one that can copy from one card to another with your 95.
- 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

RAM Cards

Sparcom

Brand New

Store spreadsheets, e-mail and large programs. These 1 Meg Sparcom Cards give your HP 95 up to 40% longer battery life than standard PCMCIA RAM cards.

Stock #2368 [256K RAM Card] List \$199	\$169
Stock #2369 [1M RAM Card] List \$500	\$459



AC Adapter for your HP 95LX



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

HP 95LX

Carrying Case for the HP 95

New

Palmtree

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
Stock #2361 [Deluxe Leather Case] List \$50	\$44.95



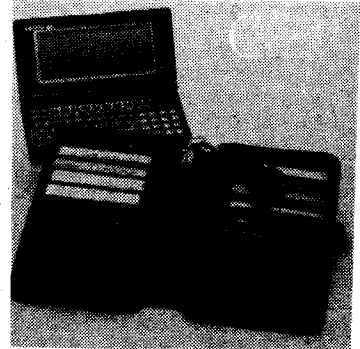
The Pocket Professional Organizer

Sparcom

Brand New

Much more than a carrying case for your HP 95—this black leather beauty holds memory cards, driver's license, credit cards, checkbook and pen. It has a zippered pocket for important documents and a detachable swivel strap. Made of the finest drum-dyed Nappa cowhide.

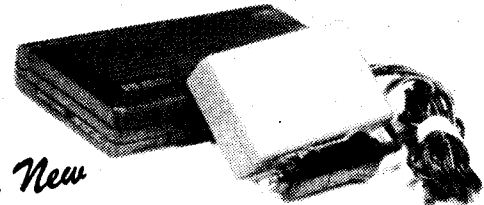
Stock #2354 [Pocket Prof. Organizer]	\$69.95
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Cigarette-lighter Adapter for the HP 95 or IR Printer

EduCALC

Brand New



Stock #2569 [Cigarette-lighter Adapter] List \$40	\$34.95
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Cables/Interfaces

How to hook up your HP 95

It's simple to connect to a PC—you'll need a cable (we offer several below) and some software which includes a standard datacomm protocol (such as Kermit or XMODEM).

But suppose you want to be able to hook up to printers and modems as well? If your cable is EduCALC's #2449 or CMT's #2342 (or you're using JetEye) you should have no problem. But if it is HP's Serial Interface Cable, you will require their Adapter Kit #82224A also.

Dual-Purpose HP 95 Serial Cable

EduCALC

Switches so it can connect to computer or to printer—eliminates adapter and NULL modem. Elegant, light weight, 6' long.

Stock #2449 [Dual Purpose Cable]	\$34.95
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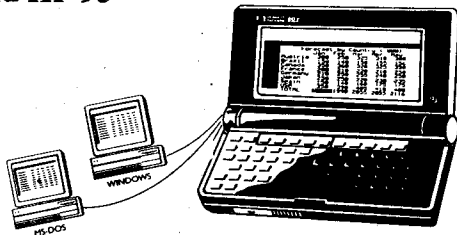
HP 95LX

Cables/Interfaces cont.

Connectivity Kit between PC and HP 95



Brand New



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.

Kit contains 1.5 meter serial cable, 9- to 25-pin adapter, communication software and Owner's Manual.

Stock #2556 [PC Connectivity Kit, 3 1/2" & 5 1/4"] List \$99\$89.95

Connectivity Products



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).

Transfer and translate Lotus spreadsheets, wordprocessing text or Hypercard files—merge, upload or download the appointment book and phone book, memo, calculator and filer.

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 will need the Serial Cable Adapter Kit as well.

Pack includes both 5 1/4" and 3 1/2" disks and a brief manual.

Stock #F1001A [Connectivity Pack] List \$100\$79.95

Stock #82222A [Serial Interface Cable only] List \$35\$29.95

Stock #82224A [Serial Cable Adapter Kit] List \$15\$14.95

Connect your 95 to your PC

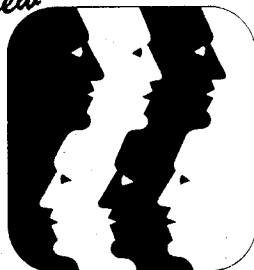
Brand New

this software runs with
the following 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

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, 5 1/4" & 3 1/2") List \$149.....\$99.95



IntelliLink

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)

Serial Interface Kit for HP 95

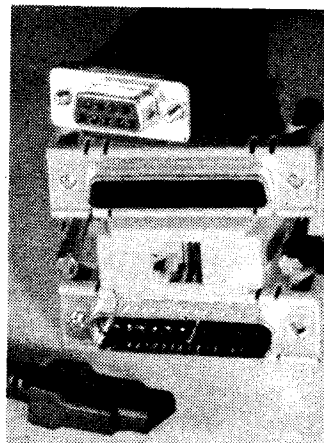
CMT

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 #2342 [95 Serial Interface Kit, 5 1/4"].....\$36.95



JetEye InfraRed to LaserJet Printer Interface for the HP 95



Brand New



A point and shoot printer interface for your HP 95! You can install it, in seconds, without power cords, cable changes or printer reconfigurations. You merely insert its plug between your printer cable and LaserJet—and your one or many PCs will still print as usual.

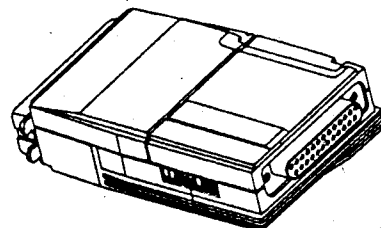
Works with HP 48 also. Supports LaserJet II, IID, IIP, III, IIID, and IIISI. Multiple-page printing requires driver software for the 95 (included) and an optional Serial Interface on your PC to install it. InfraRed reception distance 8 inches. 2 year warranty.

Stock #ESI9500A [JetEye Interface] List \$129.....\$114.95

Serial-to-Parallel Converter

ATEN

Brand New



Print on your LaserJet from your HP 95—drive any parallel printer at 9600 baud from the serial port on your 95.

Converter contains a 256K buffer and also works as a parallel-to-serial converter. It's the size of a pack of cigarettes and weighs just 4 oz. Use Serial Cable Interface from HP 95 to Converter—it plugs directly into printer (or else you'll need a parallel cable as well). Comes with Manual and 9v Adapter (requires 115v AC).

Stock #SPX325 [Serial-Parallel Conv].....\$119.95

Peripherals

2400 bps miniModem lo-cost, pocket size

EduCALC

Brand New

Fully portable, uses either external adapter or internal 9v battery (both included) and weighs just 6½ oz. Transmits at 2400, 1200, or 0-300 bps, and automatically adjusts speed. Bell 103/212A, CCITT V.22/V.22bis standards for USA and international communication. Fully Hayes and software compatible.

Auto dial (tone or pulse) and redial plus auto answer. Built-in speaker, dual RJ-11 phone jacks. Includes Adapter, 9v battery, phone cords, holder, carrying pouch, comprehensive User's Manual; 2 year warranty. Requires Serial Interface to HP 95. Dimensions: 5.85" x 2.37" x 1.05".

Stock #MM24B [2400bps miniModem]\$139.95

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

US Robotics

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

External Card Drive

PAMCO

New

■ inexpensive ■ no need to open up your PC ■ no slot required

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

4" x 1" x 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 Metaformat and Microsoft Flash File System.

Model TMB-200 will read or write to RAM cards and can also program FLASH, OTP and 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

Diconix 180si Portable Printer

Brand New



- Make last minute revisions to your presentations
- Create new overheads in an instant
- Customize your proposals on the spot
- Respond to clients while you're on the road
- See your letters in final form right away

Only 2 x 6.5 x 10.8 inches, and it weighs just 2.9 lbs (3.5 lbs with optional batteries); Centronics parallel or RS232C serial interfaces; prints on sheet or tractor plain paper on transparency. Multiple fonts and print modes in 96 x 96 dpi Draft or 192 x 192 dpi Quality resolution. Quiet; just 45 dB.

HP ink-jet print head is user-replaceable. Can recharge its batteries even while printing. 1 yr warranty.

Stock #K180SI [Diconix Printer] List \$450\$339

Stock #CN [NiCd C Cell] (requires 5)ea \$4.49

"Before you leap for a laptop . . ."

Business Week

Software

Coming Very Soon—

- **Motorola NewsStream Receiver**—gives wireless one-way communications. Tiny unit attaches directly on your 95 to download paging, updated spreadsheets & pricing, business & world news, etc.

Plug-in software on ROM cards that slide right into your HP 95LX—

- **MANAGING YOUR MONEY**—personal checking, budget and investment manager, by Andrew Tobias, from MECA Software
- **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!

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

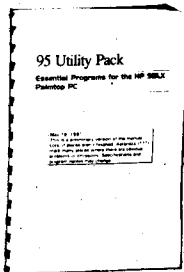
HP 95LX

Software continued

95 Utility Pack

Richard Harvey

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.

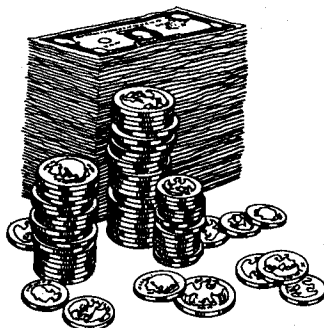
Get accurate information about memory, battery status, contrast, speaker level, keyboard state, . . . Set computer states from the command line. Find files fast. Filter extraneous characters from files for viewing or transmitting. Display graphics. Play music. Automate graphics demos. Enhance cursor.

Stock #2467 (95 Utility Pack, 3 1/4" & 5 1/4") List \$35.....\$27.95

Money Manager software for your HP 95

Autobyte

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.

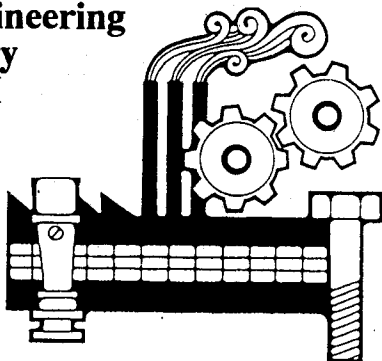
Requires HP 95 with #82222A serial cable. Includes versions for 95 and also for your PC/compatible (512K RAM) on 3 1/4" or 5 1/4" disk. Also, when you buy Money Manager, you may have us install the 95 version right on a 128K RAM card for you, ready to run even without a PC or cable (order #2494 with #2492).

Stock #2492 [95 Money Manager, 3 1/4" & 5 1/4"] List \$60.....\$54.95

Stock #2494 [128K RAM Card plus MM installation]\$164.95

Mechanical Engineering Equation Library for the HP 95LX

Paul Harmon



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, 5 1/4")\$29.95

FX-7 Flight Pak software for the HP 95

PARAGON TECHNOLOGIES



Brand New

■ flight plans ■ DUATS weather briefings ■ E6B and weight & balance

Generate great-circle routes in RNAV, LORAN or VOR to VOR format—largest database available with 34,500 airports, nav aids and intersections—in all North and Central America.

Tap into the FAA computerized weather system from any phone, free, for plain English briefings that you can read, store or print out.

Calculate a full E6B. Store a customized weight & balance template for each aircraft you fly—then recall one before your flight to fill in only the parameters that have changed.

Complete, pilot-friendly system includes 6 month's database-update subscription, comes on PC disks that require a Serial Interface to download to your HP 95. You'll need a modem for DUATS briefings.

Stock #2544 (FX-7 Flight Pak)\$194

CONTACT 95

DYNAXX

Brand New



The Contact Manager for the HP 95 and Windows

Integrated with the Appointment Book, with Hot Key access to functions. NotePad with automatic date and time stamping. Pop-up menus.

Windows version for PC has user-friendly graphics interface and mouse support, acts as DDE server application so you can use your Windows word-processor to write a letter and let CONTACT 95 supply the name and address.

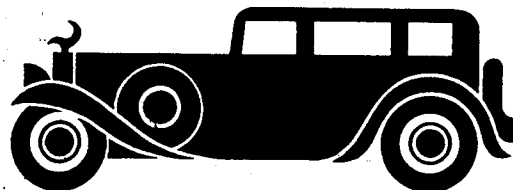
HP 95 version requires 1 Meg RAM card and Serial Interface. PC must run Windows v.3 or higher. Manual included.

Stock #2559 (CONTACT 95, 5 1/4").....\$199

TravelWare

RSE

Brand New



Keep all your trip records on the HP 95—to-do lists, schedules, flights, auto, lodging, meals, expenses. Summarizes expenses, has alarm clock. Instructions on-screen, plus Manual; comes on disk (and works on PC too) for downloading (requires Serial Interface).

Stock #2555 (95 TravelWare, 5 1/4").....\$29.95

Foreign Language Translation with the HP 95!



■ Correspondence ■ Travel ■ Books ■ Movies

Impossible? No—it's true! You get sentence-by-sentence results equivalent to those of mainframe systems—including idiomatic expressions and even multiple translations of a word that might be a noun, a verb or an adjective.

Translate a phrase or a whole file of text, then use on-screen editor to produce finished results. The dictionary has over 60,000 entries, and you can input foreign-language accents and punctuation on the 95's English keyboard.

Each language system comes on 2 cards and translates both to and from English.

Stock #2566 (95 Spanish, 2 cards) List \$299\$279

Stock #2567 (95 French, 2 cards) List \$299.....\$279

Stock #2568 (95 German, 2 cards) List \$299.....\$279

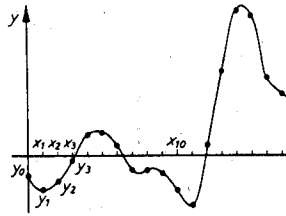
Software continued

Curve Fit linear-regression software for the HP 95 MacroMed

Brand New

- ✓ Scientists ✓ Engineers
- ✓ Physicians ✓ Pharmacists

- enter up to 99 (x, y) data points
- find area under curve between 2 points
- compare std. deviations of best-fit curves
- graph curves and data on 95's screen



Automate least-squares fit of 2-term curves for straight line, exponential, logarithmic or power equations—plus 4-term equations for cubic polynomials and for Fourier series. Analyze a curve's coefficients for each term's significance. Save and retrieve data and equations to an ASCII file.

Comes on floppy disk to download from your PC (Serial Interface required) or on a 256K ROM card that you insert directly in your HP 95.

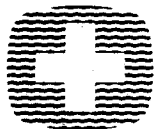
Stock #2545 (Curve Fit, ROM card) List \$260.....\$235
 Stock #2546 (Curve Fit, 5 1/4" disk) List \$180.....\$169
 Stock #2547 (Curve Fit, 3 1/2" disk) List \$180.....\$169

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

Smart Rounds Physician's software for the HP 95

Brand New

"The program has already paid for itself by allowing precision CPT Code billing under my control in the hospital setting. Also, just as important, the clinical note area is very useful in keeping track of my chemotherapy protocols for hospitalized patients." *Glenn Tisman, M.D., Advanced Treatment Cancer & Blood Diseases Center, Whittier, California*



MacroMed



- track hospital visits and procedures
- print out or interface CPT4 codes and descriptions
- finger-tip access to 700 commonly used diagnoses

Replace your index cards or note pad with the impressive new HP 95LX and Smart Rounds! You'll view at a glance all patient information, from alphabetical name, room number or account number. Access diagnoses by description or by ICD-9 code. Supports multiple physicians and multiple hospitals or locations.

Requires at least 338K system RAM available in your HP 95 plus a 512K RAM card installed. Comes on PC disk for downloading (requires Serial Interface) or on 512K RAM card to insert directly into your HP 95.

Stock #2548 (Smart Rounds, 512K RAM card) List \$745.....\$669
 Stock #2549 (Smart Rounds, 5 1/4" disk) List \$495.....\$459
 Stock #2550 (Smart Rounds, 3 1/2" disk) List \$495.....\$459

Derive, the computer algebra, calculus, graphics and numerical program—now available on ROM card for the HP 95. See page 60.

Medical Software for your HP 95

Brand New

COMPUTERBOOKS

■ **Pharmaceuticals**—gives you instant dosages, warning and contraindications, therapeutic and pharmacologic classifications, and supplier information on over 1700 generic and trade-named drugs.

■ **Physician's Reference I**—saves you significant amounts of time and effort in your daily diagnostic analyses. No need now to look up detailed formulas and manually calculate results. Instead you'll have these 26 formula-based sub programs, each with plenty of detailed on-screen information—from Alveolar-Arterial O₂ Gradient to Systemic Vascular Resistance.

■ **Patient Management**—replaces those cumbersome 3 x 5 cards with automated records, styled your way, for patient information, medical history, lab results, notes, reminders, etc.—so you'll never have to call your office again to get this updated data.

■ **Drug Interactions**—gives you quick and easy, yet thorough research on interactions. Works 3 ways: give it your list of drugs and it tells you their interactions. Or it will find all drugs that interact with a single agent. Or select a drug classification and it will list all the member drugs.

Each of these programs comes on a ROM card that inserts into your 95 and includes a complete User Manual (plus 800-number tech support).

Stock #2551 (95 Pharmaceuticals, card) List \$399.....\$369
 Stock #2552 (95 Physician's Ref I, card) List \$299.....\$279
 Stock #2553 (95 Patient Mgmt, card) List \$399.....\$374
 Stock #2554 (95 Drug Interaction, card) List \$399.....\$374

Programming Aids

95LX-UTIL FORTH Programming System

EMS

Brand New

Turn your HP 95 into a software-development system with this small and very fast implementation of Forth-83. UTIL is System-Manager compatible, so you invoke it from other applications by simply pressing Alt-U, and the familiar menu style is accessed with the Menu key.

Includes Forth compiler, an 8086 assembler for speed-critical routines, a decompiler and disassembler for testing and debugging, plus numerous source-code utilities and examples. Kernel requires just 11K and full development environment needs only 28K, so you'll have maximal space for data and programs. Source-code tools access built-in HP 95 graphics capabilities.

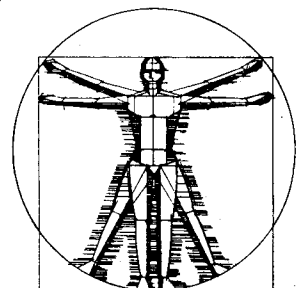
FREE games, like Merlin and Master Mind, are provided as examples. Music routine code makes your 95's keyboard musical. Manual included; comes on disk (requires Serial Interface to download from your PC).

Stock #2562 (95LX-UTIL, 5 1/4") List \$70.....\$64.95

muLISP for the HP 95

Brand New

Soft Warehouse



Customized for 95's unique screen, memory and power constraints. Port your expert system to the 95 with this fast, compact language! Comes on PC disk, requires Serial Interface to download to 95.

Stock #2560 (95 muLISP, 5 1/4").....\$399

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

HP 95LX

Bookware

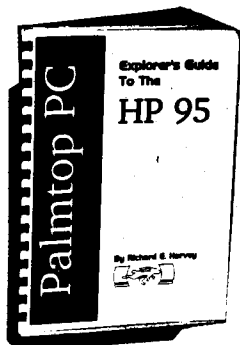
Explorer's Guide to the HP 95

by Richard Harvey

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



Using Your HP 95LX Practical Examples and Applications

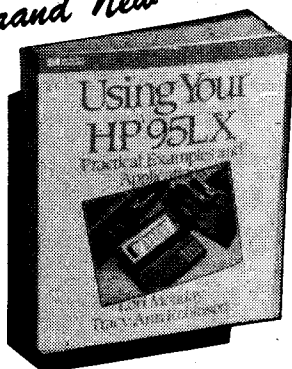
by Monday/Robinson

Brand New

Read this and you'll be able to automate your business and carry it in your pocket! You'll see in more than 150 real-life examples, tips and suggestions how to use your 95 to manage your time and money—how to schedule and plan meetings, send and receive e-mail, take 1+2+3 worksheets with you, calculate loans and project budgets.

This guide is written by experts: Lori Monday is the former HP engineer who edited the HP 95LX Owner's Manual, and Tracy Robinson was lead writer for the Lotus 1+2+3 rel. 3 documentation and is coauthor of Lotus 1+2+3 Release 2.3 At Work.

Stock #2564, Using Your HP 95LX, 380p softbound\$24.95



Dictionary/Thesaurus ROM Card for the HP 95

Brand New



Based on *The American Heritage Dictionary* and *Roget's II: The New Thesaurus*. Checks your spelling of a single word or every word in your document. Gives you all the meanings of a word, and then finds similar words for any one of those meanings. Next, you can insert just the right synonym in your document with the touch of a key, since this ROM program works neatly together with other HP 95 applications, like MEMO.

Extra features include Wildcards searches, where it finds all the words when you have a partial spelling. Also has an Anagram function that gets you every word you can spell with a given collection of letters—for killer Scrabble! Includes the popular word game Hangman.

Stock #2580 (95 Dictionary/Thesarus, Card) List \$150.....\$129.95

Read our mail from Texas—

"Please tell all of your employees to keep up the good work. They will keep and expand their jobs by solving the customers' problems immediately, as they are doing and not by trying to pass the problem along to someone else. I am amazed that so few people really understand that their primary job is to take care of, and take over, customer problems." Robert L. McIntyre, Brownsville

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Calculator Support (800)842-2237

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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.

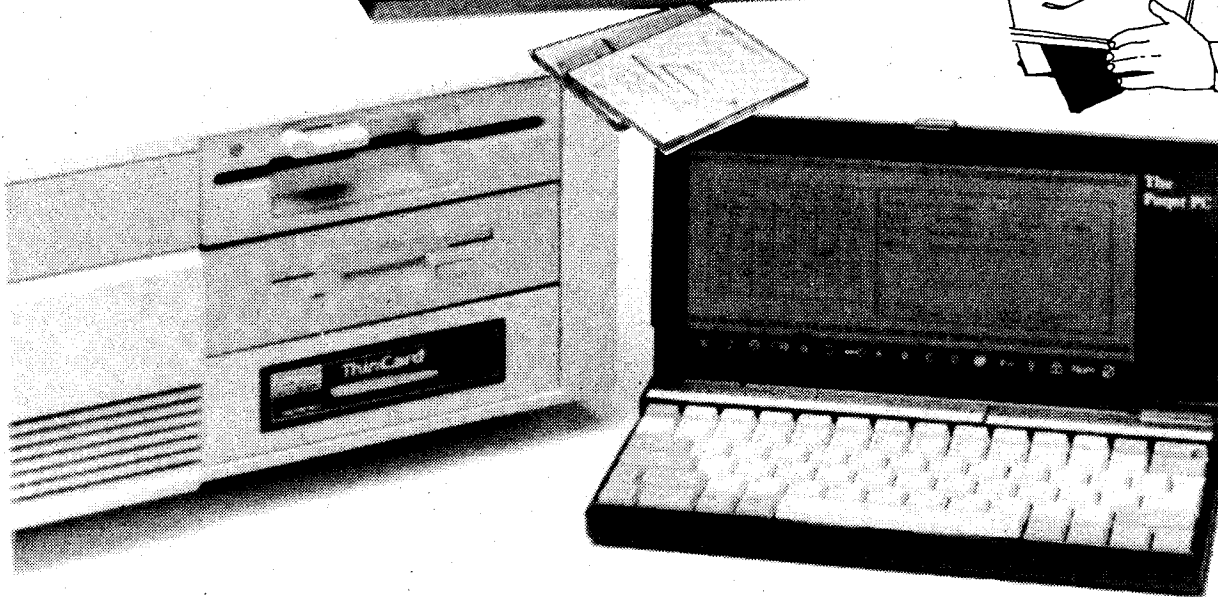
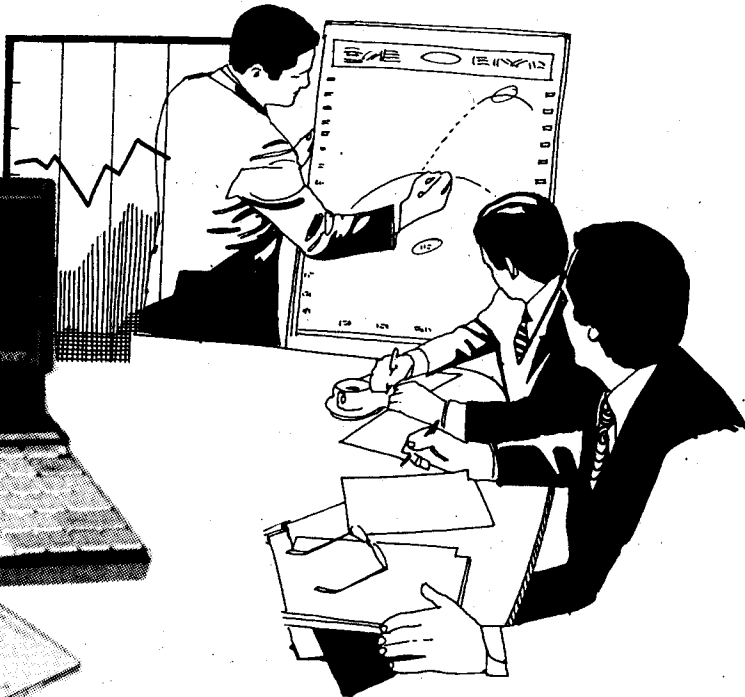
HPCC—Handheld and Portable Computer Club. The independent group for the users of Hewlett-Packard handheld and portable computers; publishes DATAFILE 8 times a year. Direct inquiries to Membership Secretary, Geggs Lodge, Hempton Road, Deddington, Oxfordshire, OX5 4QG, Great Britain.

POQET PC

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

POQET™

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 Poquet Tools applications, PoquetLink 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 PoquetTools 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 Poquet PC has an RS-232C serial port, and its PoquetLink 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 serial cable and the PC software. When you mail in your warranty registration (1 year, included), the manufacturer will send you all the PoquetTools programs for your desk PC, FREE.

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

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

Business Books & Software

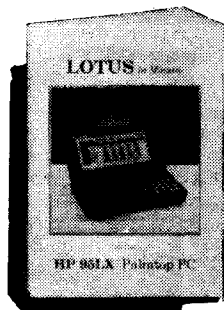
Lotus in Minutes on the HP 95LX Palmtop PC

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

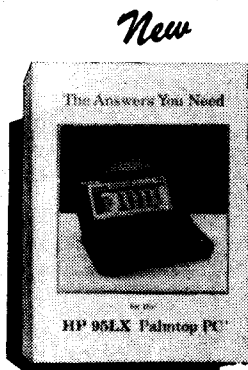
GRAPEVINE PUBLICATIONS, INC.

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

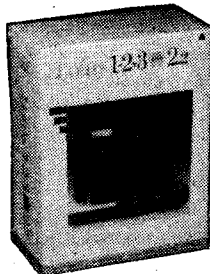


Need a copy of Lotus for your PC?

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, 3¼") List \$495.....\$389.95



1-2-3 for Scientists and Engineers

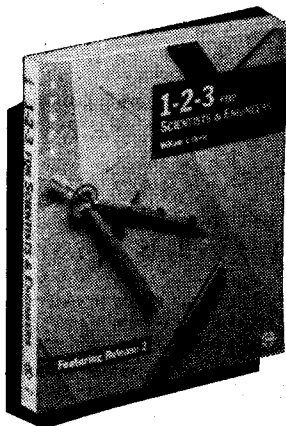
by William Orvis

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.

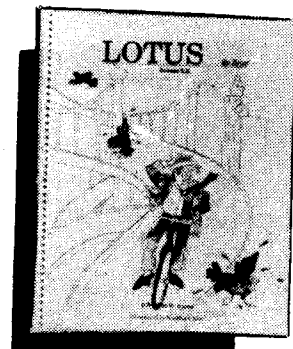
Get up-to-speed on Lotus 1-2-3 fast and easy!

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



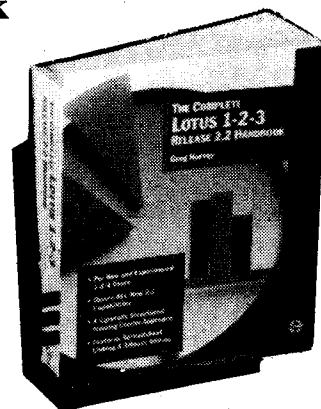
The Complete LOTUS 1-2-3 Handbook by Greg Harvey

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

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 Troubleshooting 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

Stock #509, WordPerfect Desktop, 663p softbound.....~~19.95~~ \$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

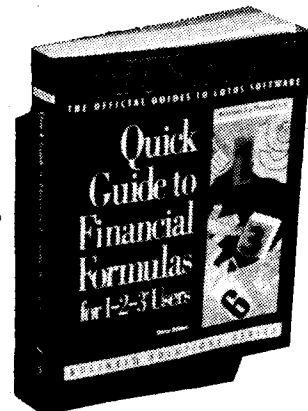
by Steve Adams

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

New

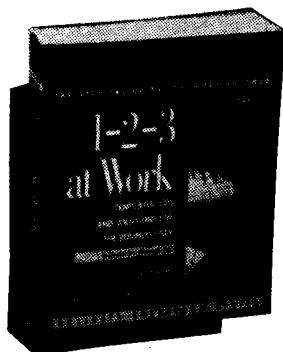
Build impressive financial applications using this Official Guide for releases 2.x through 3.x. Create cash flow, payroll, accounts receivable, depreciation or tax calculation templates.

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.

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The Lotus Guide to 1-2-3 Release 2.2

by Peter Randall

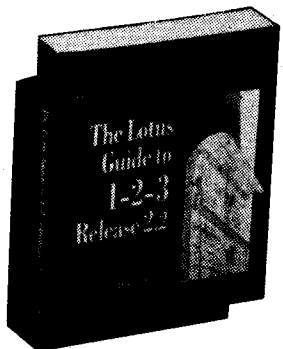
New

- 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.

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A Little DOS ... Will Do you

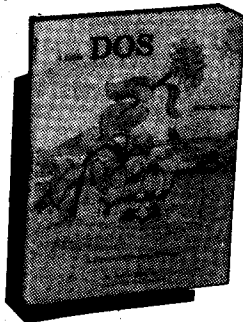
by Thomas Benjamin

New

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!

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An Easy Course in Using DOS

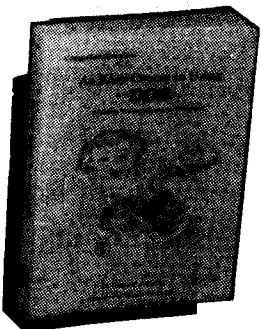
by Chester Langin

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



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

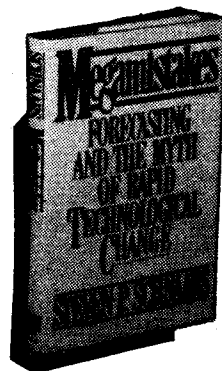
by Steven Schnaars

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%!

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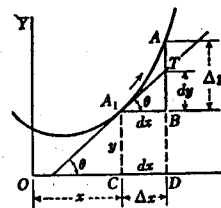
by Albert Klaf

■ for self-study (not a text)

Here's your refresher, with its unique method—the 768 questions you'll want to ask, each with an easy-to-follow answer.

Covers differential and integral calculus, from GO through multiple integrals. 50-page section applies it all to specific problems of civil and nautical engineering, electricity, stress and strain, elasticity, industrial engineering, etc. Lots of problems test your progress. Constants and formulas for reference.

Stock #2171, Calculus Refresher, 431p softbound.....\$7.95



Arithmetic Refresher for Practical People

by Albert Klaf

■ for self-study (not a text)

You can easily follow this question-and-answer style. Streamline your methods and sharpen your skills—start with elementary arithmetic, add/subtract/multiply/divide, then on to fractions, percentage, interest, ratio and proportion, averages, etc. You'll even be doing powers and roots, logarithms, positive and negative numbers and introductory algebra.

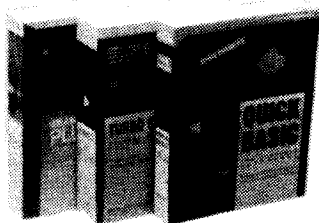
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"... a great idea. If you want to take a spreadsheet with you, keep a basic schedule, and commune with your office, the HP 95LX is a smart way to do it."

InfoWorld

Reference: Engineering/Science/Math

Complete Reference Books—
Solid Help you can Rely on
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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.

Every command, feature and function, every prompt or error message you'll want to find out about is covered—a giant softbound bargain.

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Pocket Reference Books—
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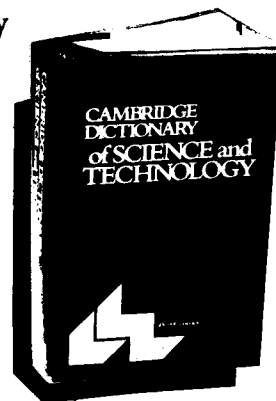
Handy little guides that put all the essential features and commands at your fingertips. Inexpensive, compact: 4¼x7 inches, 128p softbound.

Stock #564, 1-2-3: The Pocket Reference.....	\$5.95
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Cambridge
University Press



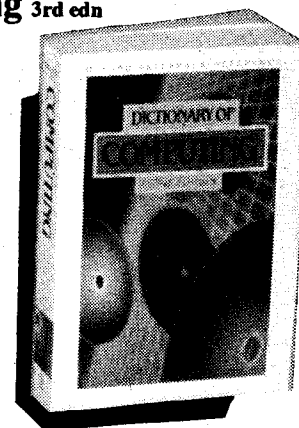
Your best one-volume desk-reference— instant access to accurate, clear, authoritative knowledge.

45,000 entries in 100 fields of science, technology and mathematics—3300 terms each in Chemistry, Engineering and Zoology, 2600 each in Botany and Medical Science, 2500 in Physics, plus extensive treatment of Architecture, Astronomy, Behavioral Science, Building, Computing, Electronics, Geology, Mathematics, Nuclear Engineering and Printing.

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

Stock #2433, Cambridge Sci/Tech Dictionary, 1008p hrd bnd. \$39.50

Dictionary of Computing 3rd edn
an Oxford Reference



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"Superbly edited, with instructive entries and intelligent cross-referencing. Terms in computer science are strongly represented, but the commercial world of data processing is not ignored... Valuable and reliable." *Nature*

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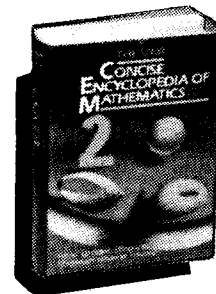
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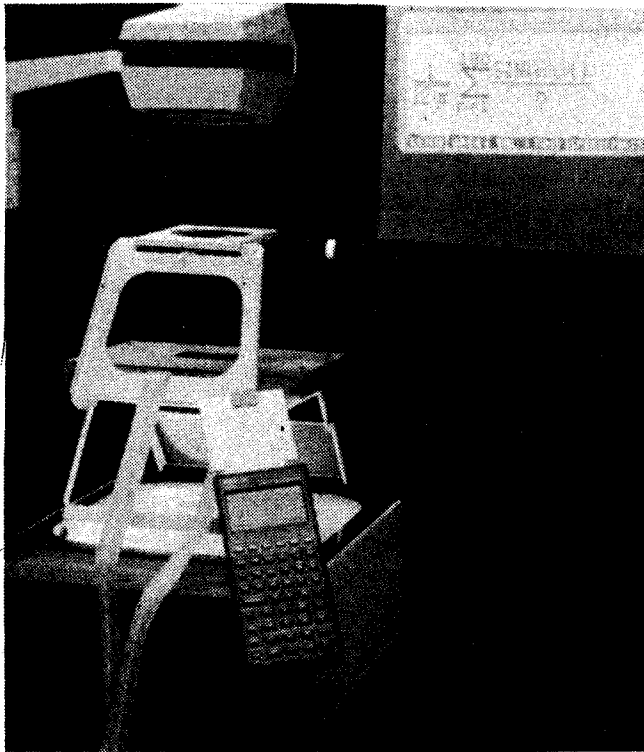
Read our mail from Georgia—

"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

IDEC



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.

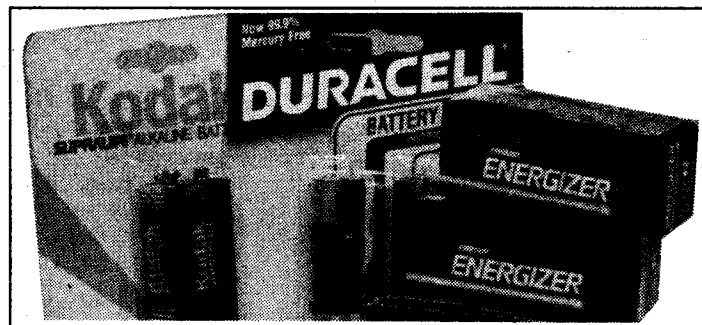
The 48SX display unit is attached to a 37-inch cable that plugs into your 48SX (calculator not included). Everything visible on your 48's LCD is displayed overhead except the iconic annunciators.

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

Calculator Batteries



Batteries

- Get extra batteries now—avoid memory loss—avoid shopping trips!
- Get fresh batteries from EduCALC—we sell the most calculator 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!

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

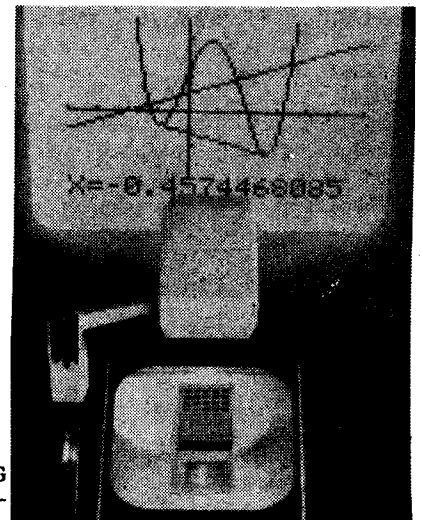
Stock #2197 [Educator SCIENTIFIC Calculator] \$79.95

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

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) \$0.89

Stock #AAA (Alkaline battery) \$0.89

Stock #C (Alkaline battery) \$1.39

Stock #D (Alkaline battery) \$1.39

Stock #N (Alkaline battery) \$0.98

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. x Size	Stands & Wedges	Hard Leather Cases	Soft Leather Wallets	Vinyl Cases
HP10B, 14B, 17B, 20S	3x A76	538, 642, 2127, 597	2062	92169M	
A 21S, 22S, 27S, 32S 42S				2068, 2070	
B HP18C, 19B, 28C, 28S	3x N	769, 2025	2063	92169D/E	
HP11C, 12C, 15C, 16C	3x A76	629		688/K	
C		998		92169B	
D HP41C, 41CV, 41CX	4x N	538, 642, 2127	511		82111A
E HP71B	4x AAA	569			
F HP48SX	3x AAA	2249, 2252	2225		82221A

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

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

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



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

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 #AWNPN [Custom Nameplate: Chrome]\$7.95

Calculator Stands, Cases & Batteries

 <p>#2225 #511 #2062 #2063</p>	 <p>#2403</p>	 <p>#92169D #92169E #92169M</p>
 <p><i>Sale</i> #2068 #2070</p>	 <p>#569</p>	 <p>#688K</p>
 <p>#998 #2025 #2127</p>	 <p>#2326</p>	 <p>#629 #642 #769</p>

Find out what fits your instrument in chart on preceding page

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

- 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
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Sale Sale 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.

Stock #2068 [Wallet/Stand: Black, size A] List \$30	12.95
Stock #2070 [Wallet/Stand: Burgundy, size A] List \$30	12.95

Soft Vinyl Cases



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

Read our mail from Iowa—

"I've always been pleased with the quality and service EduCALC provides, but your phone call was above and beyond anything I could have expected. . . . What a pleasure it was to have it all taken care of in a few minutes. You are "A-Number-One" in my book and I look forward to doing business with EduCALC for a long time." Doug Koehler, Bettendorf

Business Calculators

Real Estate Master II

Calculated Industries

- 25% Larger LCD Display
- New 'Annual' Term and Interest
- 52% Larger Keys
- New Selling-Price & Down-Payment Keys

Residential financing solutions quicker and with fewer keystrokes! You'll enter an actual selling price and down payment (as a percent or dollar amount) and automatically calculate the resulting Loan Amount—ideal for those 'what if' discoveries that can lead to a sale. No more 'change-to-monthly'—you simply enter Term and Interest Rate directly (like 30 TERM 10 INT) and it's remembered until you change it.

Large easy-to-read characters reduce eye-strain—and they clearly tell you what you're working with (like TERM or DN PMT). Bigger non-skid silicone keys deliver a firm, positive touch every time you press one.

Many other features you'll use a lot, like Triple-Zero key, odd periods like Bi-weekly, and much more.

Stock #CI3016 [RE Master II] List \$50\$38.95

RE Master II Qualifier Plus

Brand New

- Advanced 3-Way Qualifying
- Stores Debt and Income Rates
- Adds Taxes and Insurance
- ARM, APR and Points keys

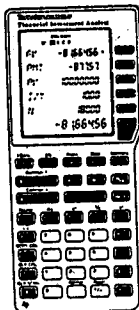
All features and functions of the RE Master II above, plus versatile Buyer-Qualifying program! Just look at those keys—Income, Debt, Expenses, Points, Qualify, T&I, ARM, APR.

Stock #CI3017 [REM II Qualifier +] List \$70\$56.95

TI Financial Investment Analyst

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\$79.95

BAlI PLUS

Advanced Business Analyst

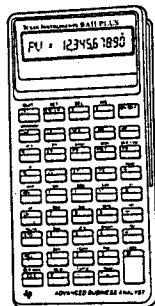
Worksheet Calculator
for Professionals and Students

TEXAS
INSTRUMENTS

- Time Value of Money—solves annuities, loans, mortgages, leases, savings; generates amortization schedules.
- Cash-Flow Analysis—up to 24 uneven cash 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

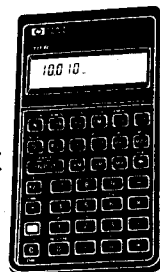


HP 10B Algebraic entry— for Business Professionals and Students

hp HEWLETT
PACKARD

Best Buy

Now —
Traditional HP reliability
is affordable



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

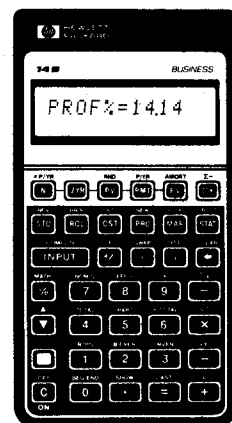
HP 14B Algebraic Calculator Smart Business at a Smart Price

hp HEWLETT
PACKARD

- ▶ Business Students
- ▶ Professionals
- ▶ Small-business Owners



Order Now
While supplies last!



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.

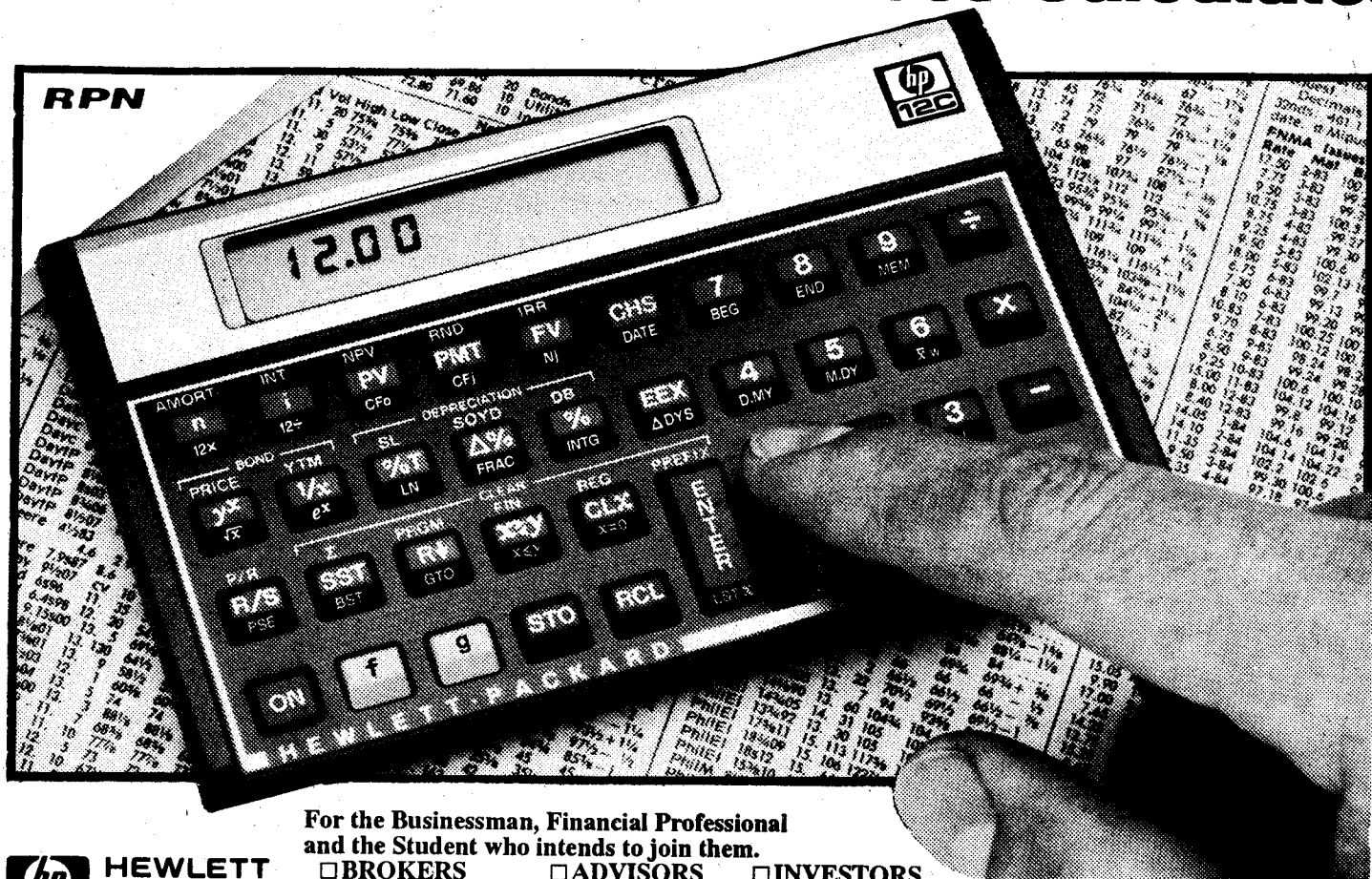
Manual included, though you probably won't need it.

Stock #HP14B [Algebraic Business Calculator] List \$80\$61.95

Stock #2106, Business Student Applications Book\$9.95

Calculator batteries, stands & cases—see pp 25-27

HP 12C Business Calculator



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



☐ 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.

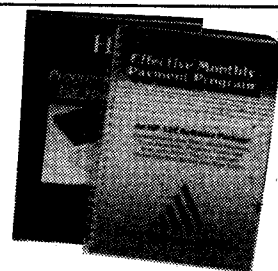
FINANCE/BUSINESS: Solves for Number of Periods (n), Compound Interest Rate (i), Present Value (PV), Payment (PMT), and Future Value (FV); Amortization with Accumulated Interest and Remaining Balance; Net Present Value (NPV); Internal Rate of Return (IRR); Bond Yield and Price; Depreciation by Straight-Line, 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 & manual incl)..... \$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.

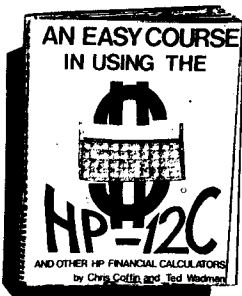


An Easy Course in using the HP 12C

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

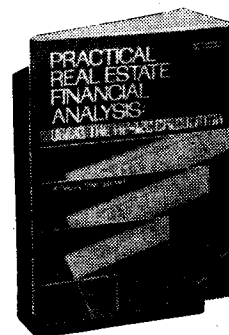
Stock #90015, Real Estate, 102p softbound\$14.95



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.

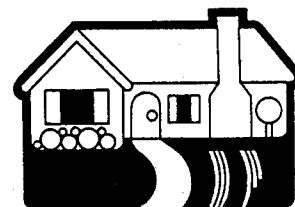
Programs are included to extend the power of your HP 12C. Plenty of worked-out examples, plus sufficient drills and exercises to study for certification exams.

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

Real Estate Mathematics Made Simple with the HP 12C

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.

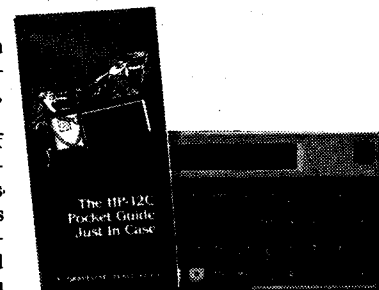
Stock #2518, RE Math Simple, 121p notebook-bound\$19.95

The HP 12C 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

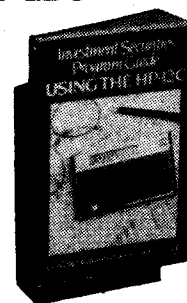


Investment Securities Program Guide using the HP 12C

"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

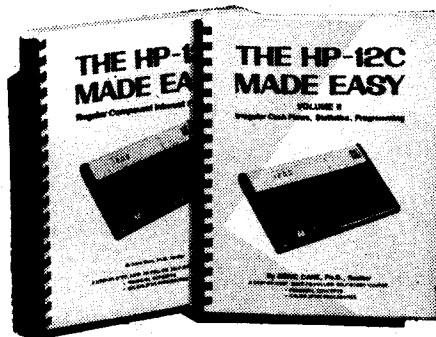


The HP 12C Made Easy by Edric Cane

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

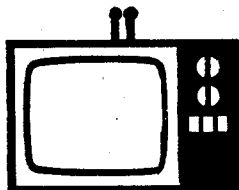
HP 12C Video Training Program

Smart₂

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



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

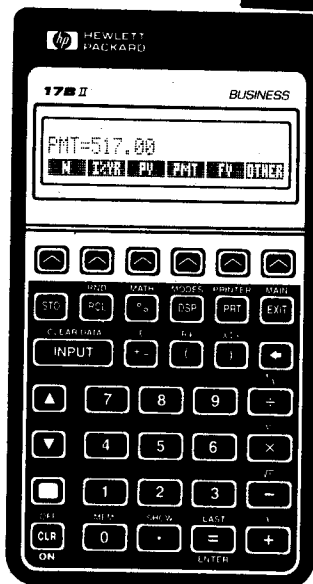
► Statistics and Math

- 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



► 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

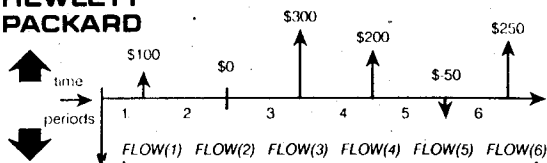
solutions for a wide variety of business problems. Plus, you can store lists of data for quick retrieval, editing and calculating. And the HP 17B keeps a running total as you go.

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

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

Calculator batteries, stands & cases—see pp 25-27

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

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

Thank you for your order

HP 17BII Business Calculator

InfraRed Printer

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



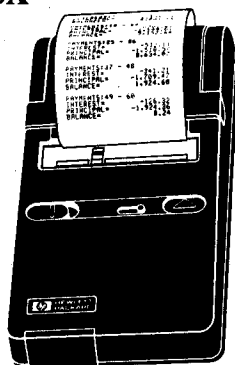
Get hard copies of all your graphics, data, programs or calculations. This silent thermal printer operates on four AA alkaline batteries (included) for go-anywhere portability — a set of batteries prints about 6000 lines, or there is an optional AC Adapter.

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 [2 1/4" Printer Paper, black, 6 rolls].....\$9.95
Stock #AA [Batteries, Printer uses 4] ea \$8.99
Stock #92169G [Cover, black]\$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!

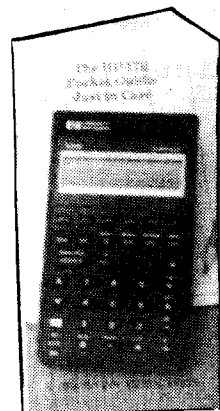
Stock #540, 17B Easy Course, List \$23\$21.95

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

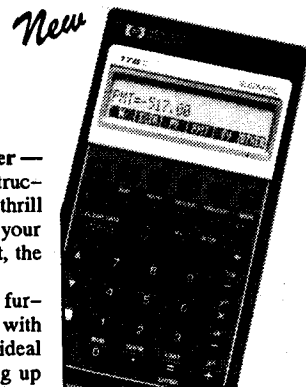
Audio-tape introduction
to the HP 17BII & HP 19BII

by Edric Cane

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



"We recommend HP financial calculators to our commercial banking clients because they are the accepted standard — the only creditable solution on the market." *Globecon Group, international banking consulting firm, New York City, New York*

An Easy Course in Using the HP 27S

GRAPEVINE PUBLICATIONS, INC.

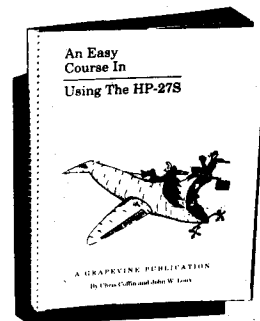
A clear, straightforward explanation of your 27S. It's written in Grapevine's friendly style, so it's easy to understand, right from the first.

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

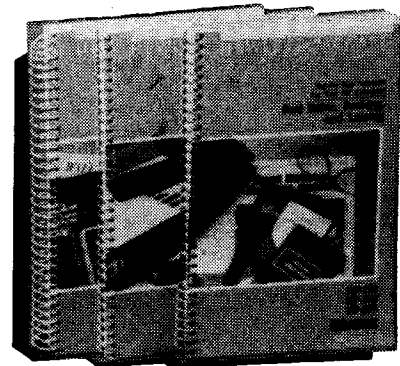


Step-by-Step Books for Business Using the HP Business Consultant II



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

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."



Data-Saving and Sorting Power

Problem-Oriented Power

Time-Managing Power

Menu-Driven Power

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:

- | | |
|--|--|
| <input type="checkbox"/> Interest rates | <input type="checkbox"/> Statistics |
| <input type="checkbox"/> Time and appointments | <input type="checkbox"/> Internal rate of return |
| <input type="checkbox"/> Payment schedules | <input type="checkbox"/> Interest rate conversions |
| <input type="checkbox"/> Markup and margin | |

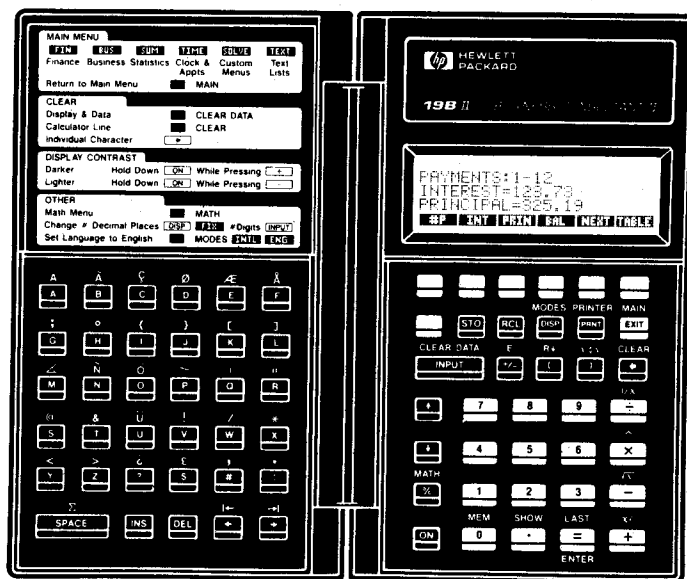
□ PROBLEM-ORIENTED POWER—the Business Consultant II is smart, so you'll only tell it the problem formulas, and it will figure out how to solve your problem for you. No more will you need to program your solutions; just tell your BUSINESS CONSULTANT what the problem is!

□ 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 25-27
InfraRed Printer: see p 32**

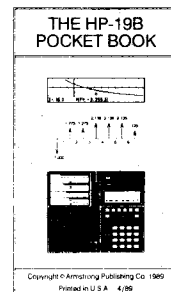
HP 19B Pocket Book

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

Read our press—here's a comment about us from an article in *Best's Review*: "EduCALC, a company whose catalog entices thousands of us to buy books, programs and electronic accessories that are frequently not available elsewhere." John B. Read, Jr., CPA, Dallas



The 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

New

OMB No. 1545-0087

1991

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

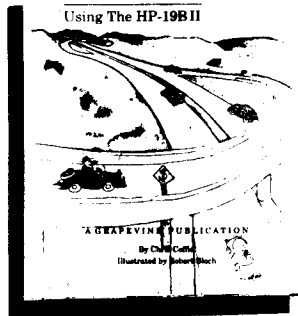
There are also 4 new buyer-qualification routines, new shorter versions of the PMT/INCOME and INCOME algorithms, and 3 new all-in-one routines for tax-specific computations of PMT/INCOME/ATAX.

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

An Easy Course in Using the HP 19BII

GRAPEVINE PUBLICATIONS, INC.

An Easy
Course In
Using The HP-19BII



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

Alpha Keyboard Overlay for the HP 18C Business Consultant

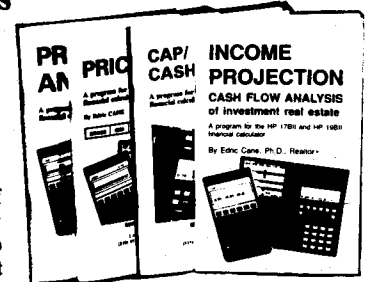
Put the 18C Shifted-Alpha symbols right by your fingertips. They're silk-screened onto the back side of an overlay, so they won't wear off. Overlay is self-adhesive to jump onto your keyboard.

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

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

by Edric Cane

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.

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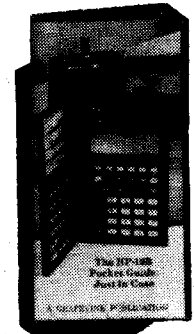
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School Calculators

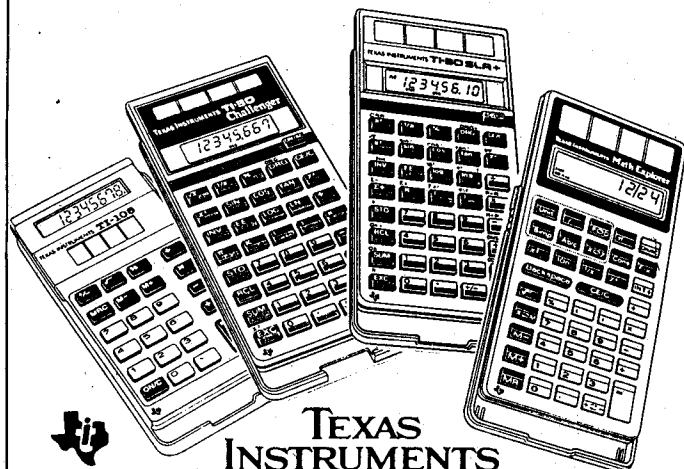
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EduCALC is your distributor for school calculators — from TI, HP, Sharp and Casio — designed to follow your student's progress, K through 12, in his or her American classroom.

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.

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School Calculators



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For the Youngest Students: TI Math Mate

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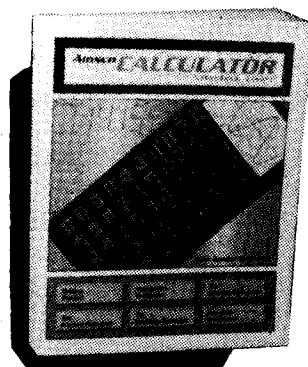
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by Ann Gantert

New



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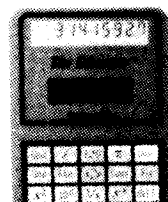
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Overhead Projectable Model

Casio

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

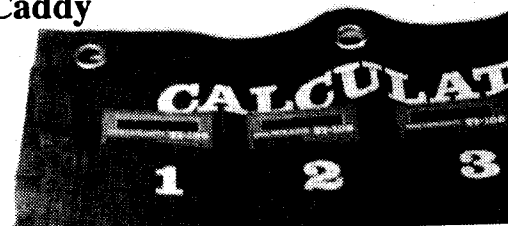
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Brand New



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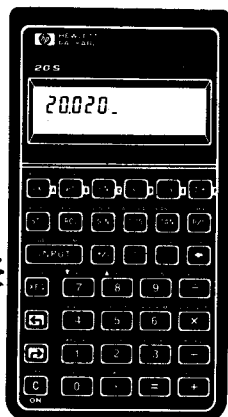
HP 20S



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

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Calculator batteries, stands & cases — see pp 25-27

Using the Math Explorer Calculator

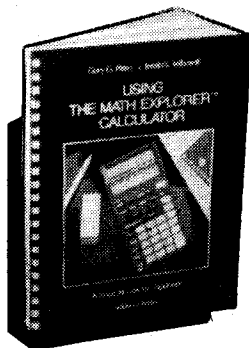
A sourcebook

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, insert-workshop materials with overhead transparency masters, plus resources and reference materials for a full year's program. "Career" chapter for business community.

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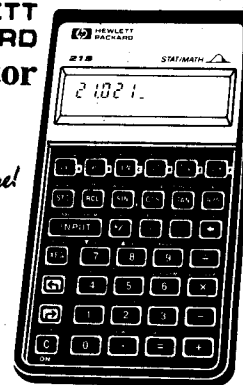
HP 21S



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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!

Does all your table lookups! Remembers all your formulas

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

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- **College math functions**—square, exponential, square root, reciprocal, natural log and antilog, pi, percent, percent change, absolute value, integer part, round.
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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.

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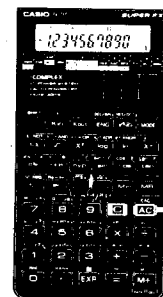
fx-115D TURBOScientific Solar Calculator

Casio

- 167 functions
- base conversions
- regression analysis
- engineering symbols
- complex numbers
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AOS algebraic operation with 18 levels of parentheses, 1 independent and 6 constant memories. Includes Workbook and pouch.

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TI-30 STAT Scientific Calculator

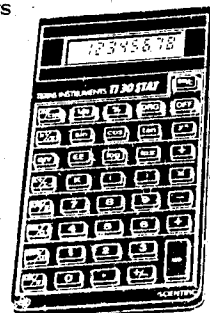
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Scientific Calculators

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Model*

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- Random Numbers
- Complex Number Functions
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- RPN Data Entry—quick and sure
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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.

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Calculator batteries, stands & cases—see pp 25-27

Tips and Programs for the HP 32S

by

W.A.C. Mier-Jedrzejowicz

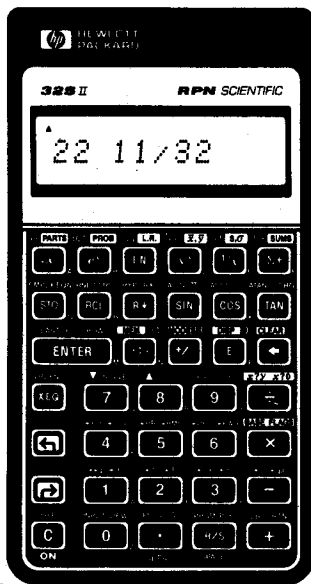
Your pocket rocket to skill and success with your HP 32S.

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.

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Step-by-Step Solutions Book

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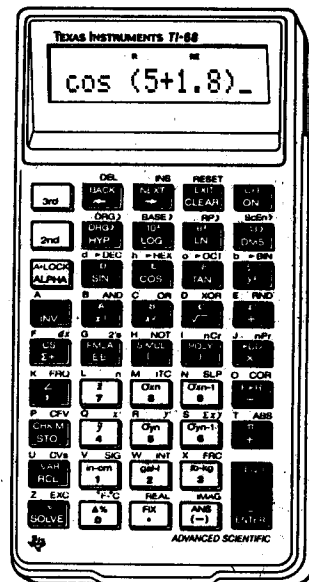
Hewlett-Packard's step-by-step Solutions Book covers useful routines specific to engineering—they will help you set up applications the way you want them.

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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!

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- 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.
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- 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

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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
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- ☐ analyze data or formulas with graphic clarity
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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, Enlarge-ment/Reduction, Coordinate Range Designation, Overwrite, Statistical Graph.

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Stock #FX8000G [Adv Graphic Comp] \$120.....\$94.95

Stock #FX8500G [Mega Graphics] List \$150.....\$124.95

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**Calculator batteries, stands, cases
and OH projector models: see pp 25-27**

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.

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

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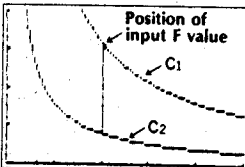
$$F[kH] = ?$$

$$200$$

$$Q = ?$$

$$1$$

$$R1 = R2[K] = ?$$



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.

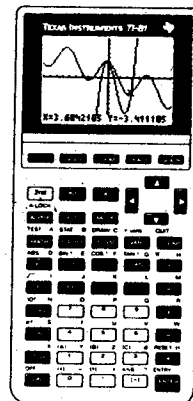
Pull-down display menus—so you'll quickly access more than 300 advanced scientific functions.

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

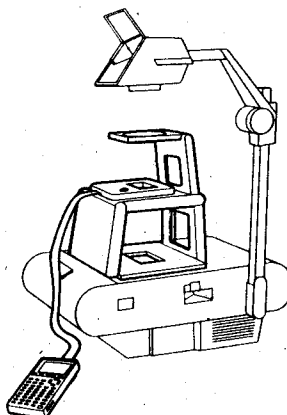
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New

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

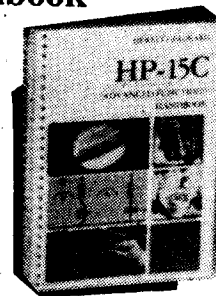
hp HEWLETT
PACKARD

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 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.

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Scientific Calculators

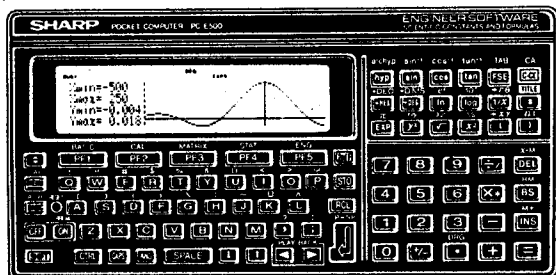
PC-E500

Scientific Pocket Computer

The most popular scientific calculator in Japan
now available in the USA!

Sharp

Raw Speed
Brute
Power



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 - 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.

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- 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 25-27

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.

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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.

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
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- Stock #PC324 [Portable Printer] List \$115\$89.95
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PC-Interface Cable for TI 74/95

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Sharp BASIC

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

HP 28S Scientific Calculator



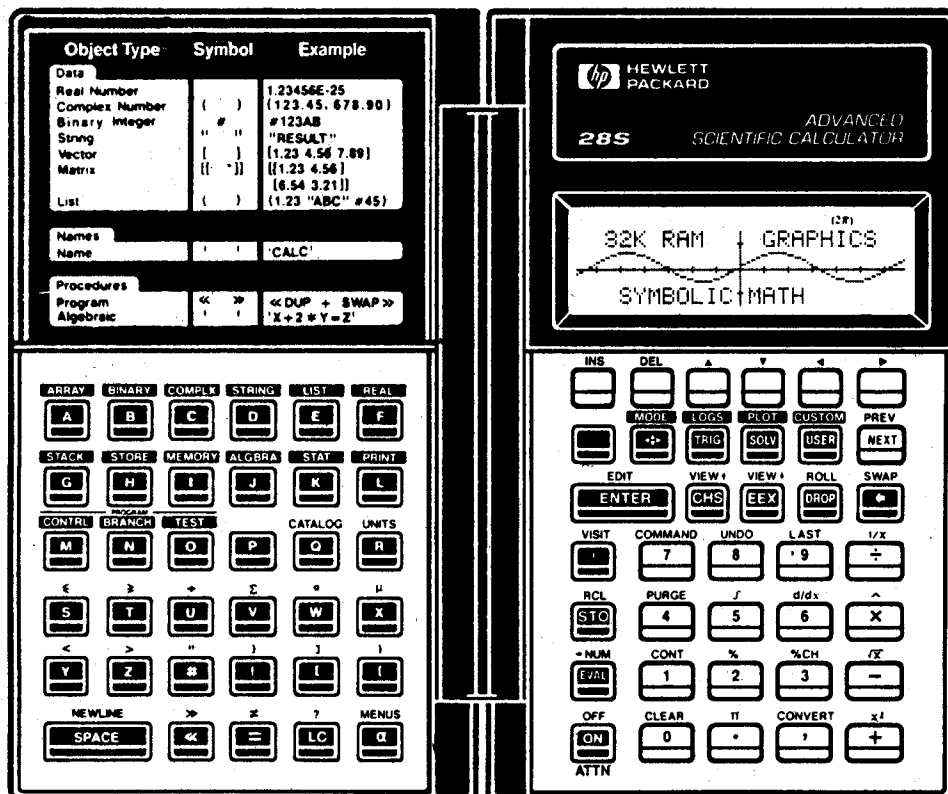
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Low Price*

**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 25-27
InfraRed Printer: see p 48**

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

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

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

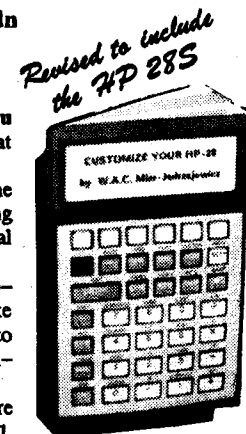
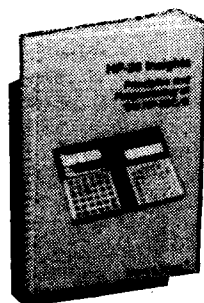
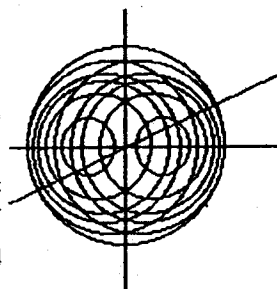
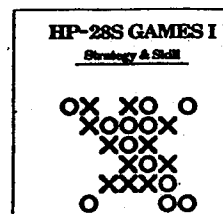
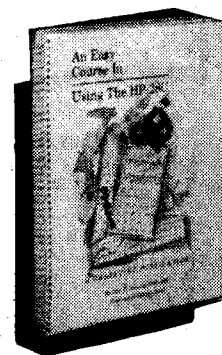
Advanced Circuit Analysis with the HP 28S

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 notebookbound.....\$9.95

Precalculus Activities for the HP 28S

edited by
Musser & Dick

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

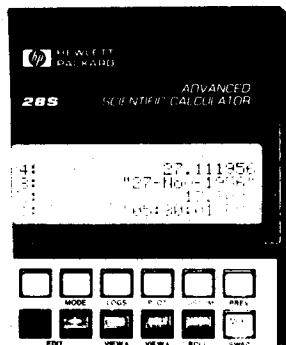
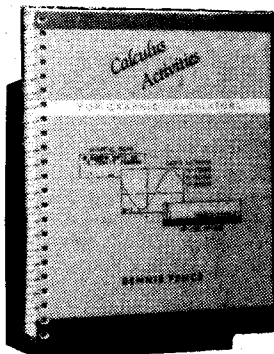
GRAPEVINE PUBLICATIONS, INC.

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).

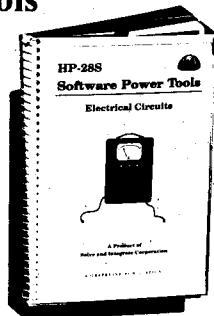
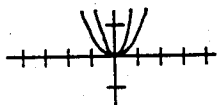
Stock #2117, 28S Electrical Circuits, 256p spiralbnd\$8.95



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]



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:

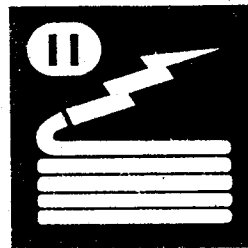
Stock #603, Algebra & College Math 90101	\$9.95
Stock #604, Vectors & Matrices 90105	\$9.95
Stock #605, Calculus 90102	\$9.95
Stock #606, Probability & Stat 90104	\$9.95
Stock #607, Math Applications 90111	\$9.95

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

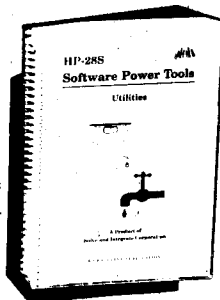


HP 28S Software Power Tools: Utilities

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.....\$8.95



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

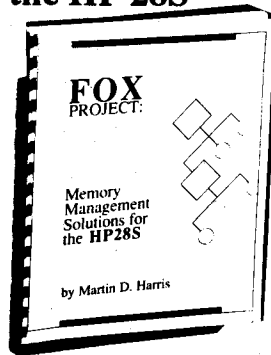
Your Complete Solution to Memory Management on the HP 28S

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



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.

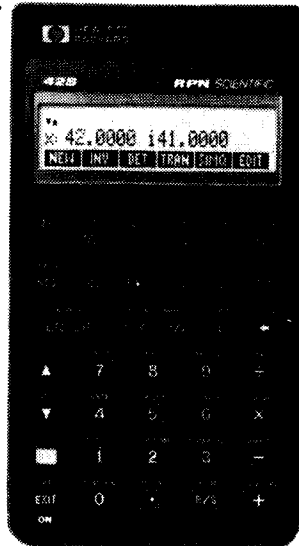
Lots of advanced techniques, too, so you can get the most out of your instrument's solver, integrator, matrix, statistics, plotting and graphics routines. Includes easy-to-load Time Value of Money routines that make it into a menu-driven financial calculator!

Stock #2065, Prgrmg Examples, 234p spiralbnd\$9.95

The New World Standard Engineered for the Engineer SuperFast RPN Scientific



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

Global Navigation on your HP 42S – see page 59

Calculator batteries, stands & cases—pp 25-27

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 (3.2×7.1 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, \sqrt{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.

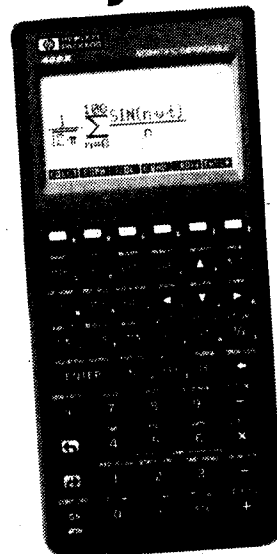
Kermit is built right into the HP 48SX so you can also wire-up to your PC or Macintosh with an optional Serial Interface Kit—then you can generate high-quality printouts and use your computer's disk drive to store data and programs. You can use the computer's keyboard to program your calculator, too, 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.

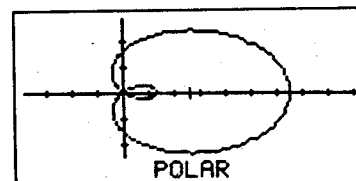
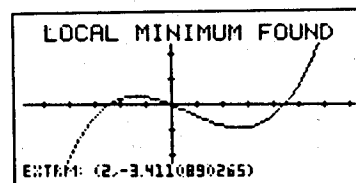
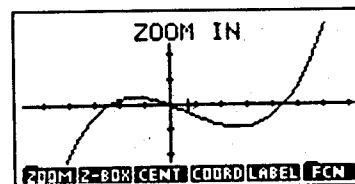
You'll have a Review mode, plus the ability to edit the stack, matrices, etc, so you'll have rapid, correct data and program entry.

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?*

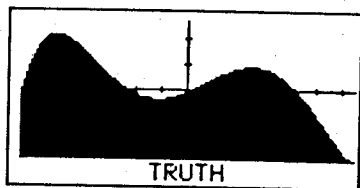
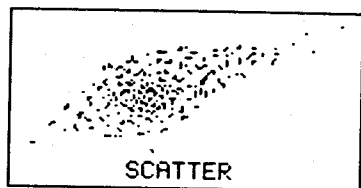
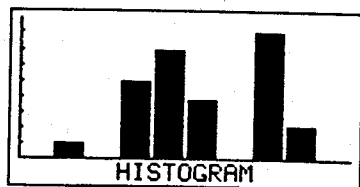
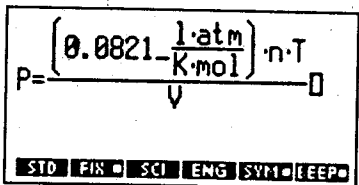
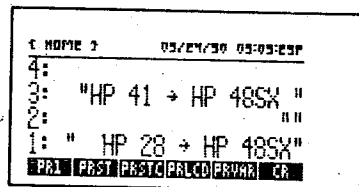


$$\frac{1}{\sqrt{2\pi}} \sum_{n=0}^{100} \frac{\sin(n\omega t)}{n}$$

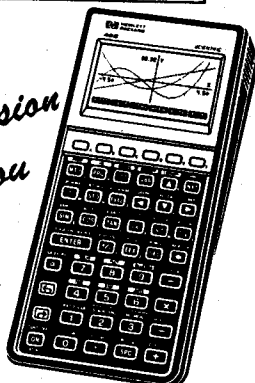
V A C Q F W



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 DEBUG 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 PLOTTR 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	46
Cables/Interfaces	47
Peripherals	47
Software	49
Programming Aids	53
Bookware	55

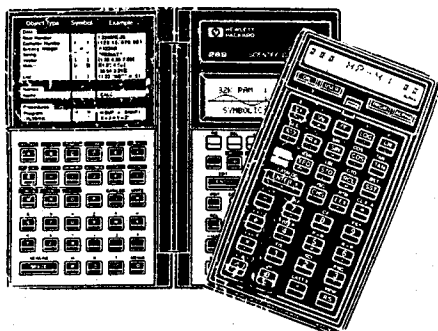
TIP
Trade In Program

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.



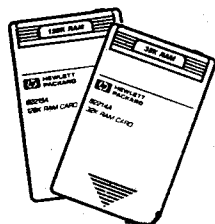
Battery-backed RAM cards



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 \$49.95
Stock #82215A [128K RAM Card] List \$195 \$124.95



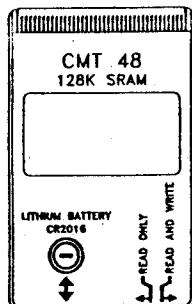
Battery-backed 128K RAM Card for your HP 48

CMT

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

HP 48 RAM Cards

TDS

FREE Software—all TDS RAM Cards come with 5¼" PC disk containing both KERMIT transfer software and the TDS Financial Functions Library. (\$95 value!)—ready to download via Serial Interface.

256 or 512K in one card! Includes software "bank-switches" so you get huge data capacity without card-switching. Battery-backed.

Stock #2365 [128K RAM Card] List \$125 \$109.95

Stock #2475 [256K RAM Card] List \$235 \$199.95

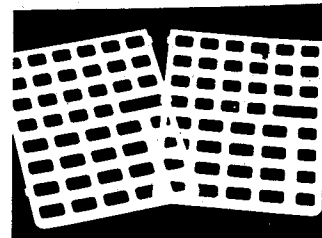
Stock #2476 [512K RAM Card] List \$445 \$379.95

Overlay Kit for HP 48SX



7 plastic keyboard overlays slip 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

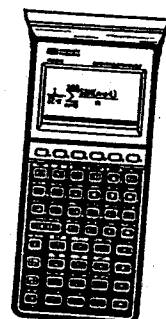
Zip out dirt and moisture—you can use your calculator right in the oil field (or the pillow fight) if it's in one of these flexible, transparent bags (not sealed against pressure); used daily, each bag will last a couple months. Fits into leather field cases, with easy access to plug-in ports.

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



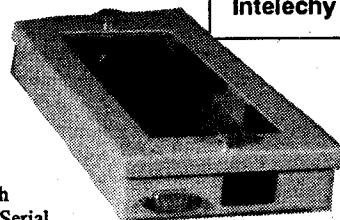
Protect your 48 in a Hostile Environment

- Moisture • Liquids
- Corrosives • Dust
- Gases • Shock

Sale

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] \$139.95



Intelechy

HP 48SX Accessories—

Stock #2249 [Solid Oak Stand] \$16.95

Stock #2252 [Clear Acrylic Stand] \$11.95

Stock #2225 [Hard Leather Case]* \$42.95

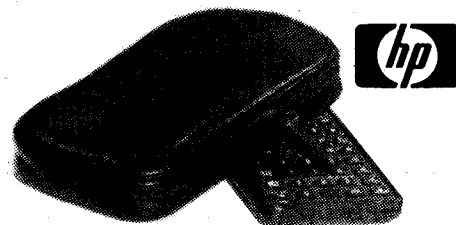
*May require a long delivery time

Black Leather Carrying Case for your HP 48

Brand New

- looks rich
- feels sumptuous
- padded for protection

Stock #2579 [HP Leather Case] \$34.95

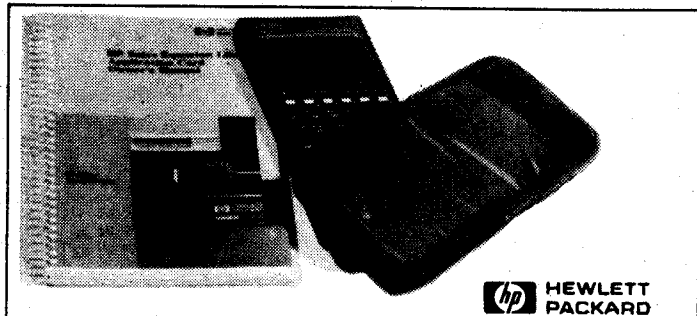


HP 48SX Scientific Expandable

Accessories continued

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 \$8.9

Cables/Interfaces

Dual-Purpose HP 48 Serial Cable

EduCALC

Switches so it can connect to computer or to printer—eliminates adapter and NULL modem. Elegant, light weight, 6' long.

Stock #2449 [Dual Purpose Cable]..... \$34.95

Serial Interfaces— Kits & Cables—for PCs and Macs



Wire-up your HP 48SX to your computer — 1.5-meter cable plugs into top of calculator (cable has 9-pin connector, and kit for PC contains a 25-pin adapter in case you need it).

You can store your data and programs on your computer's disc drive.

You can use the computer's big keyboard 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 (3 1/2" and 5 1/4" discs for PC; 3 1/2" disc for Macintosh).

Stock #82208A [PC Serial Interface Kit] List \$60 \$49.95

Stock #82222A [PC Serial Cable only] List \$35 \$29.95

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

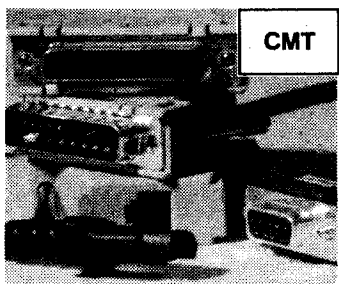
New

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, 5 1/4"]..... \$36.95



CMT

Peripherals

Program Development Link HP 48 to PCs



Turn your PC into an HP 48 program development system — pull-down menu-driven editor includes

- 1 or 2 edit windows
- Search and replace
- Easy access to HP 48 special characters
- Copy, cut, paste, undo
- Automatic comment formatting

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, 5 1/4" & 3 1/2"] List \$120 \$99.95

HP ThinkJet PC Printer AC or Portable



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.

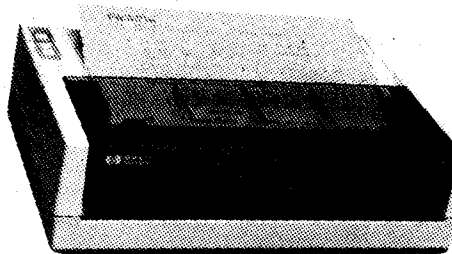
Stock #2225P [ThinkJet, Parallel, Batt] List \$495 \$399.95

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 180si Portable Printer

Brand New

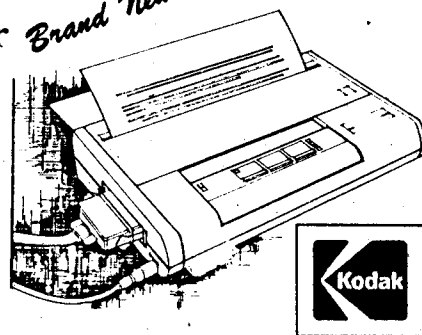
- Make last minute revisions to your presentations
- Create new overheads in an instant
- Customize your proposals on the spot
- Respond to clients while you're on the road
- See your letters in final form right away

Only 2 x 6.5 x 10.8 inches, and it weighs just 2.9 lbs (3.5 lbs with optional batteries); RS232C serial interface; prints on sheet or tractor plain paper on transparency. Multiple fonts and print modes in 96 x 96 dpi Draft or 192 x 192 dpi Quality resolution. Quiet; just 45 dB.

HP ink-jet print head is user-replaceable. Can recharge its batteries even while printing. 1 yr warranty.

Stock #K180SI [Diconix Printer] List \$399 \$343

Stock #CN [NiCd C Cell] (requires 5) ea \$4.49

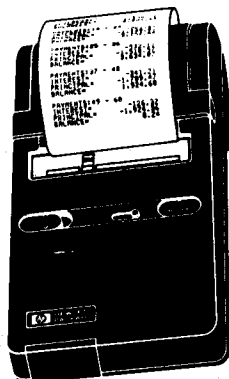


Recycle the already recycled—just remove the cover and this catalog is 100% recycled, 100% recyclable (as "newsprint").

HP 48SX Scientific Expandable

Peripherals continued

InfraRed Printer



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 [2 1/4" Printer Paper, black, 6 rolls] \$9.95
 Stock #AA [Batteries, Printer uses 4] ea \$8.99
 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

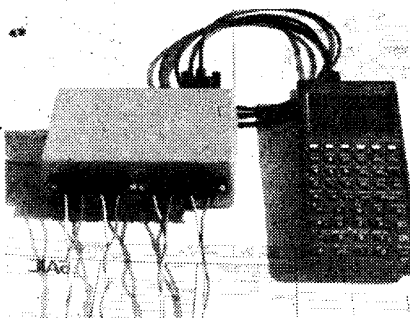
Stock #2268 [HP 48SX Overhead Display] List \$500 \$449.95
 See page 25.

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.

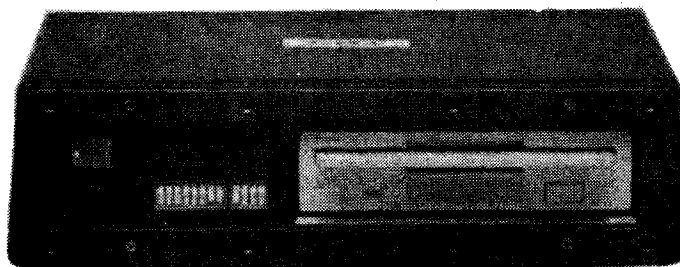
Two 16-bit input channels, 0-10 vdc, scans as fast as 1 per second. Low cost. Comes with manual and complete HP 48 software listings; requires HP 48SX with PC or Mac Serial Cable, plus a 9v battery (not included). Low cost.

Stock #2304 [A/D Converter] List \$450 \$399.95
 Stock #9V [Alkaline battery] uses 1 \$2.80

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

HP 48SX External Floppy Disk Drive

CMT



Back up your valuable HP 48SX data and programs, in a machine shop, while driving your car, or even riding horseback in the rain!

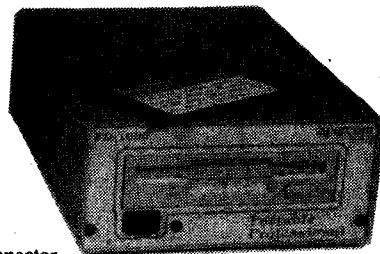
Built-in batteries give you 20 hours normal usage (recharger included). Uses 3 1/2" PC floppies, DS/HD (1.44MB) or DS/DD (720KB). Has 9-pin RS-232 surge-protected port. Baud rates from 110 to 19200. Hierarchical file system; programmable auto time-out.

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 and cover not included. 7x8x2.25 in., 4 lb.
 Stock #48RSD [External Disk Drive] List \$400 \$379.95
 Stock #82222A [PC Serial Cable] \$29.95

Portable 3 1/2" HP 95 Disk Drive for your HP 48

Sparcom



■ Uses standard 3 1/2" 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 x 5.5 x 2.5 inches

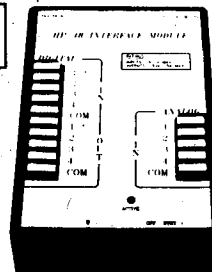
■ File Manager—a screen-based HP 48 program that makes file transfers, calculator backup and directory management a simple point-and-click operation.

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 3 1/2" HD Disk] \$2.50

ADCM-48 A/D and Control I/O for your HP 48

Travtech



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. Can also send data directly to printer, freeing calculator. Has both Event and Frequency counting modes. Burst mode A/D sampling rate of 100/sec. Analog-type control of motors or lamps using PWM output.

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

HP 48SX Scientific Expandable

Software

E.Z. Math

HP 48SX Application Card

SMI

■ 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, 128K ROM card) List \$130\$109.95

E. Z. Algebra

Comprehensive 9th grade course and high school or college remedial algebra course, builds solid foundation for higher math.

Stock #2575 (E.Z. Algebra, 128K ROM card) List \$130\$109.95

E. Z. Arithmetic

Basic elementary-school or remedial course — strongly reinforces computational skills to make arithmetic a snap.

Stock #2576 (E.Z. Arithmetic, 128K ROM card) List \$130 ...\$109.95

HP Solve—Equation Library Application Card



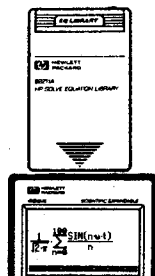
Plug in over 300 science and engineering equations—you'll use the HP 48SX cursor keys to select from equation topics such as columns and beams, electricity and fluid flow. Then touch a key to see a set of related equations. Choose your equation—the HP 48SX displays it, gives you a picture of the physical 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



Personal Information Manager

Sparcom

New

Application Card instantly makes your HP 48SX into a Business Informator

Jan 2001						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- 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

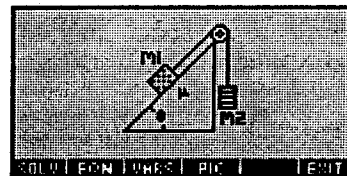
HP 48 Application Cards for ME, EE, Gen Chem, and Math

Sparcom

There are two types of these "Pocket Professional" 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 3050 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.

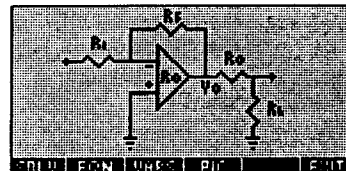


Stock #2290 (ME Applications, Card) List \$100\$89.95

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 and two-port networks.



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, and dielectric and magnetic properties.

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, 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: 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

HP 48SX Scientific Expandable

Software continued

Structural Analysis Card for the HP 48SX

TDS

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

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, 3¼") 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, 3¼") 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, 3¼") List \$745\$629.95

Stock #2525 (TDS-PC Plus Demo, 5¼") disk & manual\$9.95

HPHH = "High-Powered HandHelds" International Electronic Conference

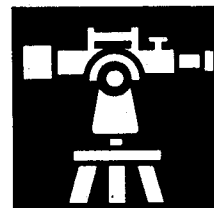
The international FidoNet computer bulletin board system, "gatewayed" to the Usenet academic and corporate network, carries a conference (or "echo"), with contributors world-wide, dedicated to High Powered HandHelds, particularly HP.

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

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 \$105.....\$91.95

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 \$105\$91.95

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 \$330\$269.95

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 \$550\$469.95

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 \$1100....\$895.00

TDS 480

Survival Case for your HP 48

TDS

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 \$895\$759.95

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

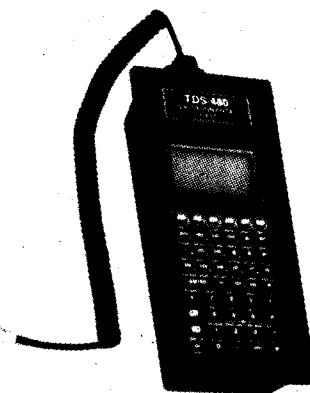
Stock #2334 [TDS 480 Cable, Zeiss] List \$75.....\$69.95

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



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.

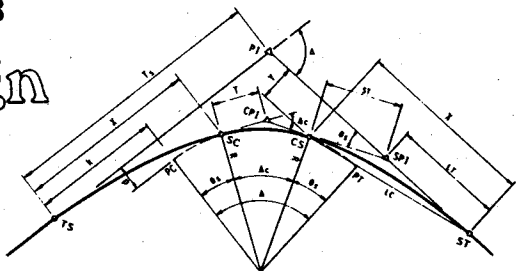
Uses full HP 48SX capability—you move around the screen with cursor keys, use menus and softkeys for quick access to surveying functions. With RAM card installed you can collect field data up to 3000 points, including Northing, Easting, elevation and 16 character point descriptors. InfraRed Interface 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, 3 1/2" disk] deposit.....\$35.00

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 5 1/4" and 3 1/2" 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 inverting. 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 inverting. 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.

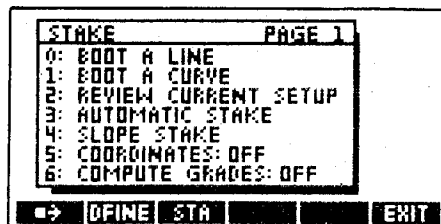
Fits into HP 48S (or 48SX without RAM Card).

Stock #2340 (D'Zign 48S Construction Pak).....\$39.95

Surveying Software for the HP 48SX

RAMSS

New



Party Chief 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), Editor, Horizontal and Vertical Alignment files, Templates, Slope Stake, Rotate and Translate, File Manager. Can interface with most Total Stations. Plots Data to the screen to you can visually check it, and much more.

Party Chief 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 a EPROM—you'll need a serial cable (#82222A) to download system files from your PC. Each has its own special Overlay to customize your HP 48 keyboard; Manual included. Each program requires a 128K RAM card.

Stock #2526 (Party Chief COGO).....\$349

Stock #2527 (Party Chief TOPO)\$549

File Transfer and Conversion Software for your PC

FileMan48—Transfer Cogo, Topo, Horizontal and Vertical alignment, and Template files between your PC to the HP 48SX. Edit all file types. Process raw topo into coordinates. Import/export ASCII files to and from your CADD system. Plots data to the screen. Supports a mouse. Manual included.

Stock #2528 (Party Chief FileMan48, 5 1/4")\$149.00

Calculator Bulletin Board System

This is an HP service where users and developers 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.

HP 48SX Scientific Expandable

Software continued

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, 5 1/4"]\$15.95

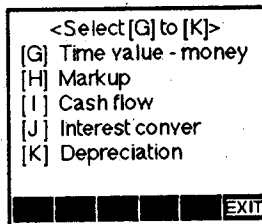
TDS 48 Financial Functions Library

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.

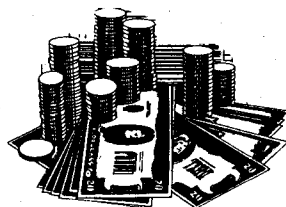
At the Blackjack table you get the usual choices to hit, stay, double down or split pairs. Plus Casino 48 will make you a blackjack expert; just press the recommend key and the 48 will analyze your situation and recommend the best strategy—and provide the rule you should remember. There is also advice 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—Show-down deals 1 card (high wins, or tie) from a pinocchio 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.

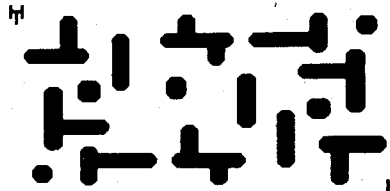
Comes on disk for your PC or Mac—you'll need the HP Interface Cable to download this program to your HP 48SX.

Stock #2281 (Games + PC Pgm, 5 1/4" & 3 1/2") List \$30.....\$26.95

Stock #2282 (Games + Mac Pgm, 3 1/2") 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, 5 1/4").....\$16.95

Stock #2437 (IR WARS for Mac, 3 1/2").....\$16.95

HP 48 Goodies Disks

Public-Domain Software Programs

■ High Density Disks for PCs; 1.2M 5 1/4" or 1.44M 3 1/2"

■ Lo-Lo-Cost, Donated Programs — 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 Emissions, Internal Messages, Planetary Positions, more.

Stock #2410 (HP 48 Goodies Disk, Vol 1, 5 1/4" HD).....\$4.95

Stock #2320 (HP 48 Goodies Disk, Vol 1, 3 1/2" HD).....\$4.95

Stock #2452 (HP 48 Goodies Disk, Vol 2, 5 1/4" HD).....\$4.95

Stock #2453 (HP 48 Goodies Disk, Vol 2, 3 1/2" HD).....\$4.95

Stock #2483 (HP 48 Goodies Disk, Vol 3, 5 1/4" HD).....\$4.95

Stock #2484 (HP 48 Goodies Disk, Vol 3, 3 1/2" HD).....\$4.95

Stock #2485 (HP 48 Goodies Disk, Vol 4, 5 1/4" HD).....\$4.95

Stock #2486 (HP 48 Goodies Disk, Vol 4, 3 1/2" HD).....\$4.95

Stock #2355 (HP 48 Goodies Disk, Vol 5, 5 1/4" HD).....\$4.95

Stock #2356 (HP 48 Goodies Disk, Vol 5, 3 1/2" HD).....\$4.95

HP 48SX Scientific Expandable

Programming Aids

SmartRom for HP 48

SMART TECHNOLOGY

Brand New

$$\begin{bmatrix} n & \Sigma x_i & \Sigma y_i & \Sigma z_i \\ \Sigma x_i & \Sigma (x_i)^2 & \Sigma x_i y_i & \Sigma x_i z_i \\ \Sigma y_i & \Sigma y_i x_i & \Sigma (y_i)^2 & \Sigma y_i z_i \\ \Sigma z_i & \Sigma z_i x_i & \Sigma z_i y_i & \Sigma (z_i)^2 \end{bmatrix} \begin{bmatrix} a \\ b \\ c \\ d \end{bmatrix} = \begin{bmatrix} \Sigma x_i \\ \Sigma x_i t_i \\ \Sigma y_i t_i \\ \Sigma z_i t_i \end{bmatrix}$$

130 new commands for symbolic matrix handling, data sorting/searching/replacing, easier editing of programs, enhanced string and list manipulation, graphics management, meta-object and stack handling, and system access.

Comes on 32K ROM card. Package also contains a PC disk of application routines like fast Fourier Transform, perpetual calendar, cross reference generator, user-defined font manager for handling custom characters, BARPLOT program using shaded patterns, effective compiler/decompiler for RPL internal language, more.

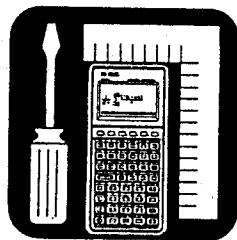
200-page User's Manual included.

Stock #2574 (SmartROM for 48)\$169.95

HP 48 MLDL— Machine Language Development Library ROM Card

Jan Brittenson

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

EduCALC

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

Read our mail from California—

The HP 48SX is really a wonderful educational tool. Thank you for providing it and for the very professional manner EduCALC treats its customers. James F. Gordon, Los Angeles

Program your own Application/Data Cards for the HP 48

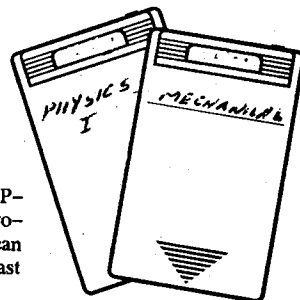
CMT

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



Port your HP 41 applications to the HP 48SX and see them run faster!

grip

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-compiled 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

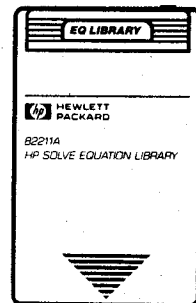
hp HEWLETT
PACKARD

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



HP 48SX Graphics

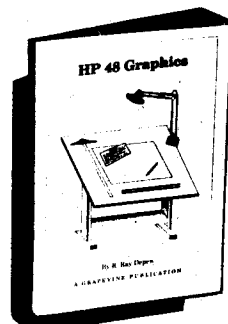
GRAPEVINE PUBLICATIONS, INC.

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 48SX Scientific Expandable

Programming Aids cont.

HP 48 Programmer's Reference Manual

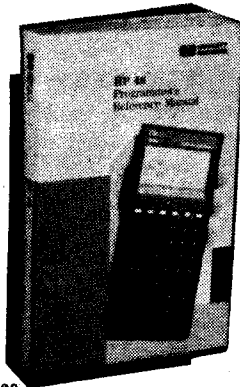


A "must have", for reference and for study

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 Pgrmr's Ref Manual, 504p softbound\$19.95



48 Insights, Part I Principles and Programming

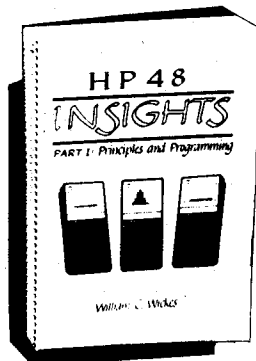
by William Wickes

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 | 5. Storing Objects | 9. Programming |
| 2. Understanding RPN | 6. Methods | 10. Display Optns/Graphics |
| 3. Objects and Execution | 7. Customization | 11. Arrays and Lists |
| 4. The HP 48 Stack | 8. Problem Solving | 12. Program Development |



Part II cover the applications: SOLVE, PLOT, ALGEGRA, TIME, STAT and UNITS with the same thorough "insights" as Part I.

Stock #2322, 48 Insights, Part I, 381p wirebound.....\$25.95

Stock #2358, 48 Insights, Part II, 340p\$24.95

The HP 48 Handbook

The programmer's how-to and reference book

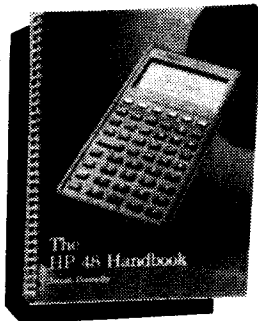
by James Donnelly

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 operations, 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



The HP 48 Programmers Toolkit

James Donnelly

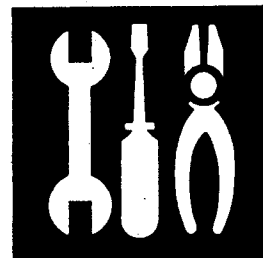
Turbo charge your own programs with this library of machine-code subroutines—more than 60 new commands for high-speed stack operations, list and string utilities, sorting, graphics, data calculations, meta-object utilities and directory searching—for example, create a 10K character string in one second, 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



HP 48 Programming Examples

by D.R. Mackenroth

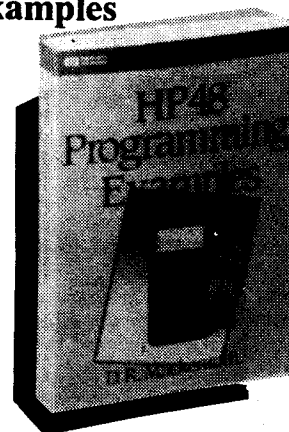
New

- requires no expertise
- fun programs—music, games, health
- detailed step-by-step procedures
- applications for calculus, statistics, business
- hints, tips and in-depth explanations
- graphics—shows you how to draw pictures

150 usable example programs with enough details so anyone with an HP 48 can easily understand them. Complete program listings and comprehensive discussions so experienced programmers can readily modify programs.

Written by a former HP Learning Products Engineer who has authored numerous owner's and service manuals for HP calculators.

Stock #2577, 48 Programming Examples, 341p softbound\$29.95



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, 149p.....\$16.95



HP 48SX Scientific Expandable

Programming Aids cont.

Introduction to RPL

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

The HP48SX Data Types

- 11 Overview
- 11 Name That Type
- 11 Real Numbers
- 12 Complex Numbers
- 14 Strings
- 15 Real Arrays
- 18 Complex Arrays
- 19 Lists
- 20 Global and Local Names
- 21 Program Objects
- 21 Algebraic Objects
- 21 Binary Integers
- 23 Graphic Objects
- 23 Unit Objects
- 24 Tagged Objects
- 25 Directory Objects
- 25 Other Objects

Bookware

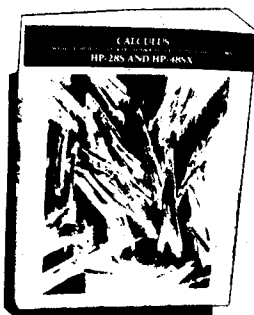
Calculus with the HP 28S and HP 48SX

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 order.

Stock #2434, Calculus with HP 28S/HP 48SX, 115p sftbnd\$16.95



Mastering Your HP 48: Programming & Applications

by Jean-Michel Ferrard

Programs and flowcharts for Arithmetic, Real and Complex numbers, Polynomials, Fractions, Matrices, Analysis techniques, Finite series, Geometry, Graphing, Large integers, Statistics and Probability, and Databases. Programs need 42K RAM.

Stock #2390, Mastering your HP 48, 277p 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)?

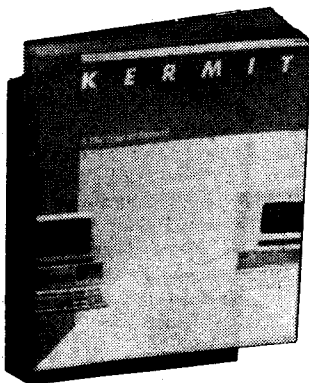
Kermit

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.

Stock #2240, Kermit, 372p softbound.....\$26.95



Using MS-DOS Kermit, 2nd edn

by Christine Gianone

How to connect your HP 48 to the World, step-by-step

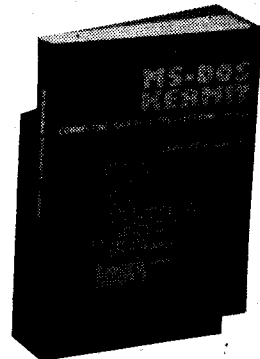
Say hello to Compuserve, Dow Jones, MCI Mail, BBS, DIALOG, Telenet, TYMNET—hello to your desk PC, to your corporate mainframe.

"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 3.11, graphics and printer routines and several automated DEMOs.

Stock #2448, MS-DOS Kermit, 2nd edn, 345p, 5¼", sftbnd... \$34.95



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.

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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:

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- Characters & Strings
- Algebraic Objects
- Units
- Complex Numbers
- Binary Integers
- Tags
- Programs
- Flags
- Vectors
- Lists
- Names
- Directories

Then you'll learn how to apply these objects in:

- Math
- Statistics
- Building Equations
- Customizing Menus
- Directory Structuring
- Algebra
- Plotting
- Assigning Keys
- Calculus
- SOLVing Equations
- Time Calculations
- 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



Fractals on your HP 28/48—see page 61.

Read our (Thanksgiving) mail from California —

I ask that... each of EduCALC's personnel listed on page 3 of your catalog accept this token of my appreciation [a 2 pound box of candy] for that which you, EduCALC, have given me over the years. James F. Gordon, Los Angeles

HP 41 Calculators

Ask for our HP 41/71/IL Catalog

EduCALC continues to stock many items for these special users — Disk & Cassette Drives, Interfaces, Accessories, Printers, Bookware, and Programmers' Aids.

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HP 41CX



HEWLETT PACKARD



- **Big Main Memory:** 319 data registers or 2233 bytes of program and data memory.
- **Additional Memory:** 124 registers or 868 bytes 'expanded' memory built-in.
- **Even that is Expandable:** plug in 1 or 2 Extended Memory Modules—each will increase your memory by 238 registers or 1666 bytes—the possible grand total is 919 registers or 6433 bytes!
- **24K Operating System:** 200 built-in functions at your fingertips.
- **It is a Clock, Calendar, Alarm, Timer, and Stopwatch:** your HP 41 can become the heart of a time-based system controller.
- **Continuous Memory:** programs and data are remembered while your unit is OFF—no need to reprogram it.
- **Lots of Software for Your Profession:** there are many Application Pacs right now—for math, science, engineering, business and finance, surveying, navigation, etc. See below in this catalog. Plus magnetic cards, cassettes and bar codes to load many other programs, including over 6000 in the Users' Library.
- **4 Quick and Easy I/O Ports:** just plug in ROM software modules, memory modules, interfacing and more.
- **Take it with you, Anywhere:** it's only 205 g (7.2 oz.). With its LCD display you'll get about 6 months use from a set of alkaline batteries which are included (rechargeable batteries optional).
- **RPN Logic:** you see intermediate results of calculations, recover from errors easily.
- **ALPHANUMERIC, User-Definable Keyboard:** assign your own programs to any key—use ordinary words for prompts and labels.
- **Full Documentation to HP Standards of Excellence:** complete, readable manuals and handy quick-reference guides included.
- **You Get the Whole Kit:** tough carrying case, 4 alkaline batteries, keyboard overlay, Users' Library subscription card, Owner's Handbook included.

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.

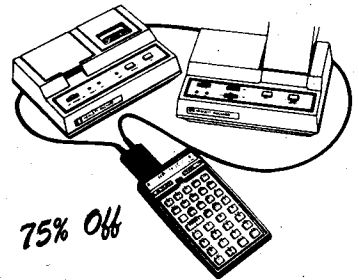
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- Stock #82176A [Data Mini-Cassette] \$9.50
- Stock #82176-10 [10 Data Mini-Cassettes] \$88.95
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- Stock #82167A [HP-IL Cable, ½ meter] \$5.95
- Stock #82167B [HP-IL Cable, 1 meter] \$7.95
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- Stock #82033A [Rechargeable Battery Pack] \$24.95
- 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.



Stock #82160A (HP IL Module) List \$125 ~~\$29.95~~ **\$29.95**

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"... Again, many thanks. It is great dealing with someone who knows what he is talking about, and who can take the proper action when called for." Robert H. Green, Cleveland

HP Surplus Gear

Surplus HP Gear—Now you can afford a

- 9114B HP-IL 3½ Disc Drive
- 2225B HP-IL ThinkJet Printer
- HP 75D Package

Here's the story—

These units were recently installed in a chain of stores for point-of-sale inventory control until a corporate decision to change accounting methods prematurely retired them.

It's a shame. But we lucked out to get them at a truly low price. This corporate mistake is your opportunity—however, you must act fast.



FREE HP 75D Package

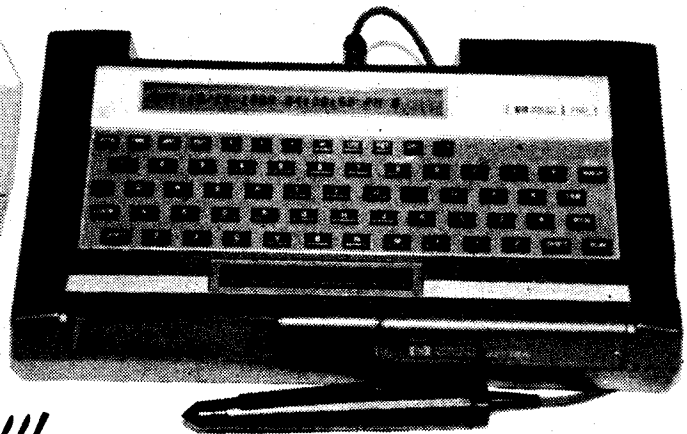
I want to move these units out FAST! So, when you buy any one of these three, Disc Drive or Printer or HP 75D Pkg, I'll sell you the entire HP 75D Package (a \$279 value) for only \$90 more—just order your HP 75D Package as:

Stock #HP75DU1 [Used Computer Pkg] \$90

—OR—

Buy any two of these items, Disc Drive and Printer or 2 Printers or . . . , and I'll give you a HP 75D Package FREE! Just add this line to your order:

Stock #HP75DU2 [Used Computer Pkg] FREE



Up to 90% Off!

Used, yes—but believe me, this industrial grade equipment is in excellent, near-new condition—perfect operating shape—and every unit comes with our 30-day guarantee. If your unit fails to operate properly in any way whatsoever, we'll replace it FREE.

This liquidation means you can have that IL Disk Drive or ThinkJet that you've wanted, and that full-memory HP 75 to experiment with—these units are really affordable! But do not delay—we must limit these fantastic savings to stock on hand. Let us know right away that you want one.

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.

Stock #9114BU [Used 3½" Disk Drive].....\$199

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!

Stock #2225BU [Used ThinkJet Printer]\$129

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 62 for supplies

Math Software & Bookware

Data Acquisition Techniques using Personal Computers

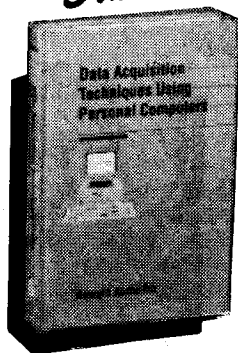
by Howard Austerlitz

- How to use off-the-shelf components
- Which software to buy
- How to build custom hardware
- How to write your own programs

Covers all aspects of setting up a PC-based system, including A/D conversion and digital data analysis techniques. Comprehensive survey of commercial hardware and software products. Plenty of details for PC/XT/AT compatibles, plus brief parallels for PS/2 and Macintosh II systems.

Stock #2537, Data Acqn using PCs, 316p hardbound.....\$59.95

Brand New

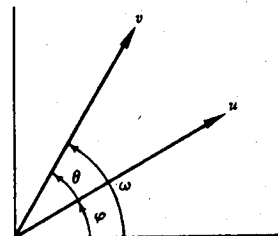


Introduction to Linear Algebra by Marcus/Minc

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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Beginning Technical Mathematics Made Easy

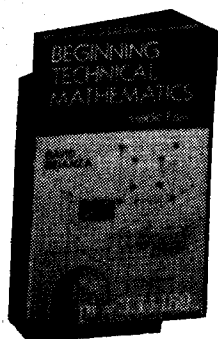
by David Brianza

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!

Stock #2243, Technical Math, 130p softbound.....\$8.95

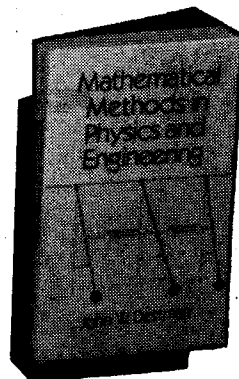


Mathematical Methods in Physics and Engineering 2nd edn

by John Dettman

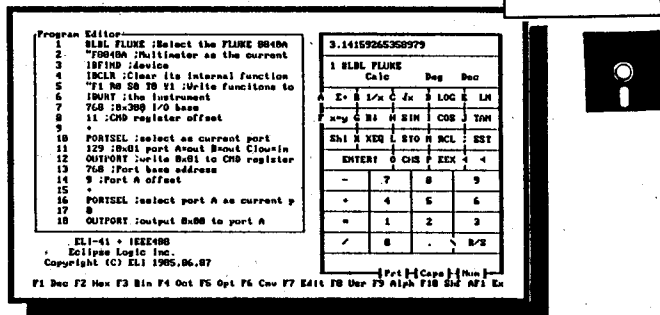
An algebraically based approach to college-level applications of math—you'll learn about linear algebra, Hilbert spaces, calculus of variations, boundary-value problems, integral equations, analytic functions, integral transforms.

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CALC-41

Sparcom



Professional Scientific Calculator

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 3.3 or higher. Mouse supported.

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Stock #747D (CALC-41, 3 1/2") List \$67.50.....\$59.95

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Tom Marazita, Muclid Enterprises, Goleta

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by Richard Nelson

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Stock #18, Off-Line Storage for my HP 41

Stock #19, HP 41 Glossary of Terms.

Stock #20, Factoring Large Numbers on the HP 16.

Stock #22, What is HP IL?

Stock #23, Calculating with Fractions.

Stock #25, Currency Conversions on HP 12C.

Stock #26, Swap Disk Service Description & Details.

Stock #27, Personal Data Base Applications.

Stock #28, HP 48 Goodies Disk #1 Description.

Stock #29, HP 48 Goodies Disk #2 Description.

Stock #30, HP 48 Goodies Disk #3 Description.

Stock #31, HP 48 Goodies Disk #4 Description.

Stock #32, HP 48 Goodies Disk #5 Description.

Math Software & Bookware

Astronomy on the Personal Computer

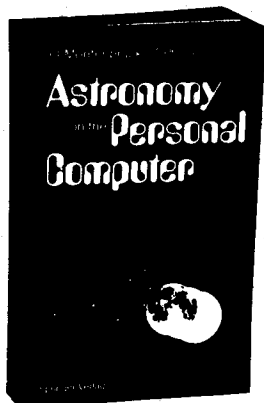
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The most interesting topics of spherical astronomy and celestial mechanics—each with discussion, math, and a ready-to-use program (included on disk).

Basic coordinate transformations, prediction of planetary positions, solar eclipses and stellar occultations. Introduces orbit determination and photographic astrometry.

Disk includes fast, reliable subroutines so you can develop your own software—this is an indispensable tool for a student, an amateur or a professional.

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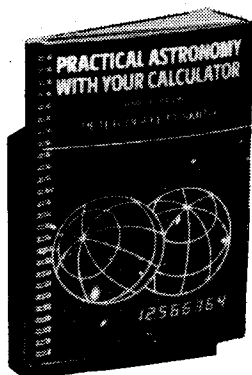
Practical Astronomy with your Calculator

3rd edition

by Peter Duffett-Smith

All you need is this practical handbook, your scientific calculator, pencil, and paper—you can predict important astronomical phenomena! Theory is kept in the background so detailed instructions can be followed blindly for conversion of time systems and coordinate systems, calculations of planetary positions and phases, motion of the sun and moon, even prediction of eclipses.

Stock #83, Astronomy with Calculator, 185p wirebnd \$16.95



Global Navigation on your HP 42S

by John Deranian

Developed by a US Navy pilot who needed a reliable back-up system in case his aircraft system failed in flight when he was 500 miles from the nearest land.

Great Circle Navigation between two points, Dead Reckoning to be used mainly with an INS or Omega or Loran, Remote Navigation for great circle navigation referencing Navaid to any other positions direct, VOR Positioning calculates aircraft's present position based on two VORs radials, and Point to Point gives course and distance to another radial and distance of a TACAN based on the current radial/DME as well as time to go based on an estimated ground speed. Manual has worked-out examples, complete program listing.

Stock #2570, 42 Global Navigation, 23p softbound \$24.95

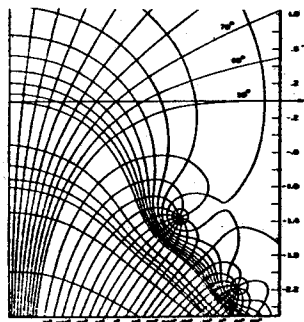
Handbook of Mathematical Functions

by Abramowitz/Stegun

Easily the most computational math for your money! This is a cooperative effort of the National Bureau of Standards, National Science Foundation, MIT, et al. Formulas, graphs, and mathematical tables for elementary and many special functions. Math and physical constants and conversion factors. Abundant computational formulas and techniques.

This may be the most quoted, most useful math science book there is.

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Introductory mathematics through science applications

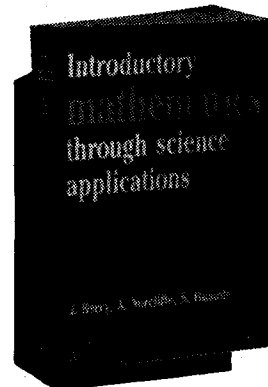
Cure your math education yourself!

If you feel cheated out of math by your own college education, here's your fix—a new text from England with a physical point of view.

It has so many realistic and important, worked-out examples that you can restudy 2 years of college math by yourself—or rather, with your calculator.

5 chapters describe functions and their uses, then 3 chapters each for differentiation and integration. Substantial, intuitive coverage of ordinary and partial differential equations, probability and statistics.

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Numerical Methods for Scientists and Engineers

2nd edition

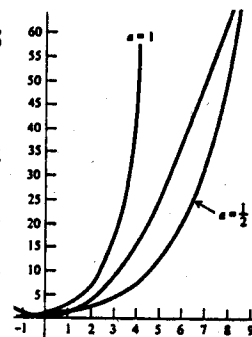
by Richard Hamming

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.

You'll get that insight in this comprehensive reference-text, together with the numbers you need. Introductory fundamentals are covered, and algorithms, then a complete survey of classical methods (including Differential Equations, Chebyshev Approximation, etc.)

Modern numerical methods are covered too, including the Fourier Transform and the Laplace Transform, plus Eigenvalues and Eigenvectors.

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Numerical Methods That usually Work

by Forman Acton

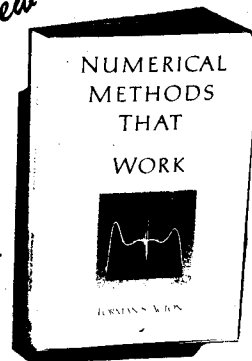
"A first-rate book which can be used either as a text or a reference." *Choice*

Efficient methods for the solution of equations—algebra, transcendental and differential—with a computer. The reader is expected to be motivated by the physical world, to want answers to 'real' problems.

You'll need an introduction to the calculus and differential equations. You'll get a sense of power in being able to solve problems that your math courses seem to have ignored.

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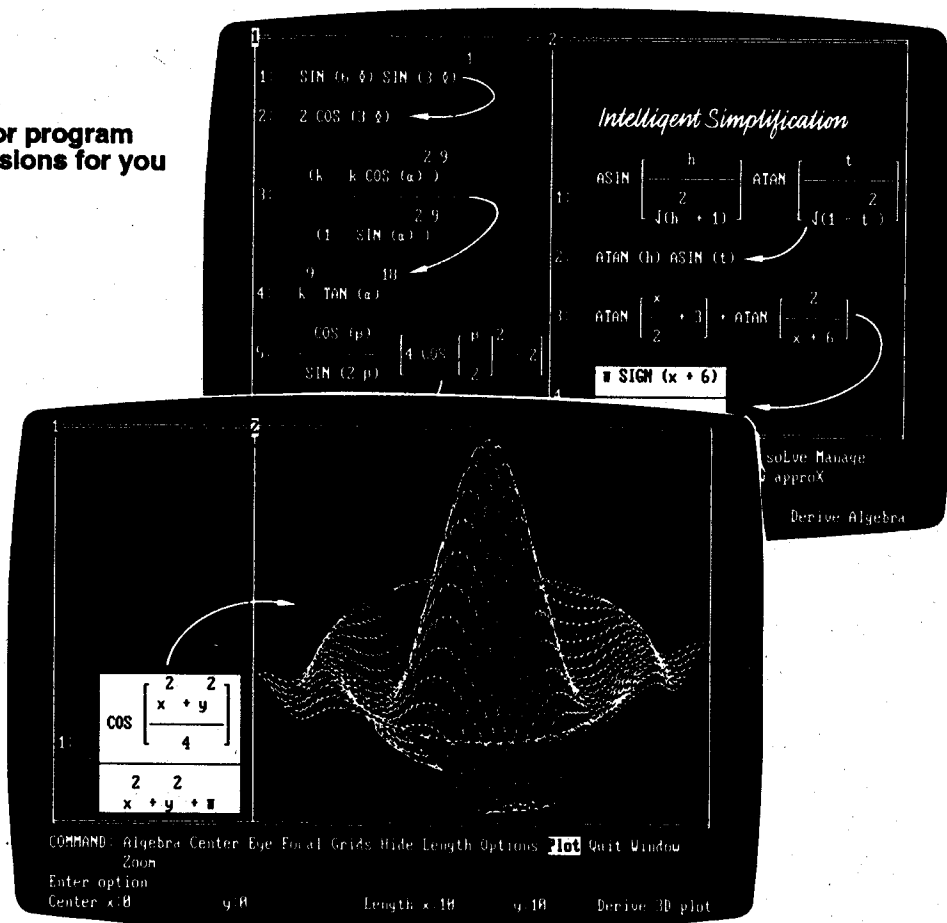
Math Software & Bookware

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the Fun-for-the-Mind PC-Calculator program
that simplifies BIG algebraic expressions for you

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70 new functions more
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 - Calculator functions—log, trig, hyperbolic, statistical, financial, complex arithmetic and functions, probability—all to thousand-digit precision if you like
 - SOLVE and INTEGRATE to any precision
 - Finite and infinite limits, sums and products
 - 2D plots with zoom and color; 3D plots with wire frame, perspective and hidden-line removal, zoom, scaling, more
- Has attractive 2D screen displays of formulas—you can highlight and extract subexpressions, rearrange or remove or edit, save to file or print.

Executes DOS commands from within, generates FORTRAN and Pascal-compatible files. Menu-driven with on-line HELP and examples right on your disk to study.

Runs fine on PC compatibles—on my AT it inverted a 5 by 5 matrix in 4 sec and founds its eigenvalues in 6 sec.

Requires 512K, supports monochrome or color graphics; only the HP 95 version supports printers. Manual included.

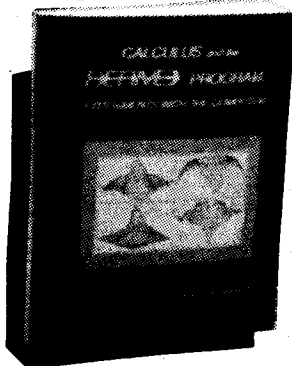
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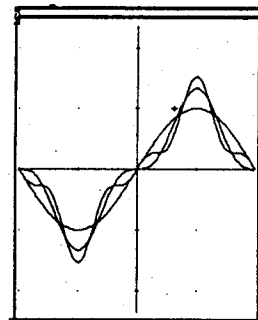


22 lab experiments on your computer with Derive 2.0—a tutorial and a workbook, for the program and for the mathematics, whether or not you're a student. (This is the calculus lab manual mentioned in the Derive Manual, p 224.)

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Exploring Math from Algebra to Calculus with Derive

by Jerry Glynn



A dedicated teacher shares his examples, explorations and demonstrations—suitable for use by first and second graders up to calculus students.

Plenty of step-by-step instructions and pictures of the screen at each step. Anyone can use this to learn math and have fun doing it.

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Math Software & Bookware

Calculus Laboratories using DERIVE

by Carl Leinbach

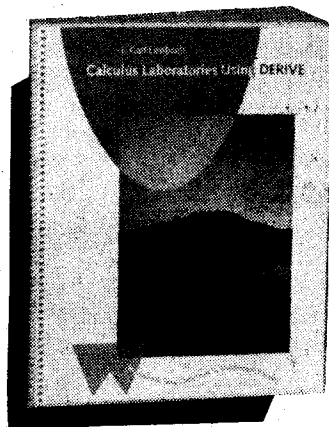
New

You get to concentrate on the process or concept, while DERIVE does the heavy, manipulative work—so you'll be led to some deep and interesting math and applications of math.

You'll conduct an experiment, then modify its input and repeat it easily. This way you'll make your own hypotheses and test them out—mathematical analysis then follows your lab activity, as it must.

These labs will work for a novice who is also taking a lecture course or for self-study later.

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Derive Lab Manual for Differential Equations

by David Arney

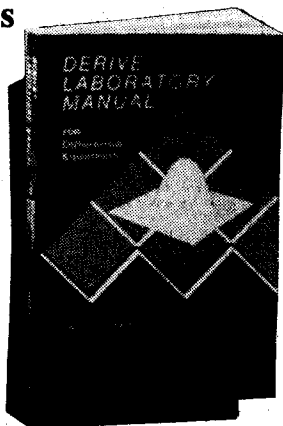
New

Shows you how to use Derive to solve the problems from a course in DEs—its core is a set of 18 carefully worked-out examples, one of each type.

The idea is for you to work through these examples while seated at your computer, with this book open—it gives details of commands and keystrokes, plus pictured readouts from the Derive display as the work proceeds.

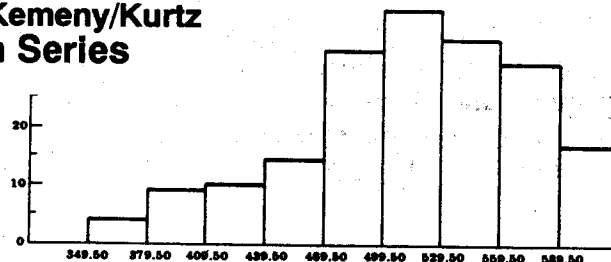
Manual begins with an introduction to the Derive program; it includes many completely solved exercises for you to practice on.

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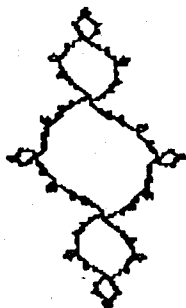
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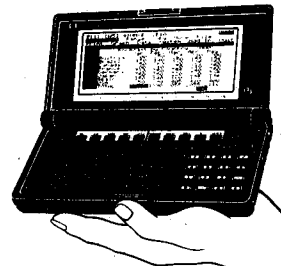
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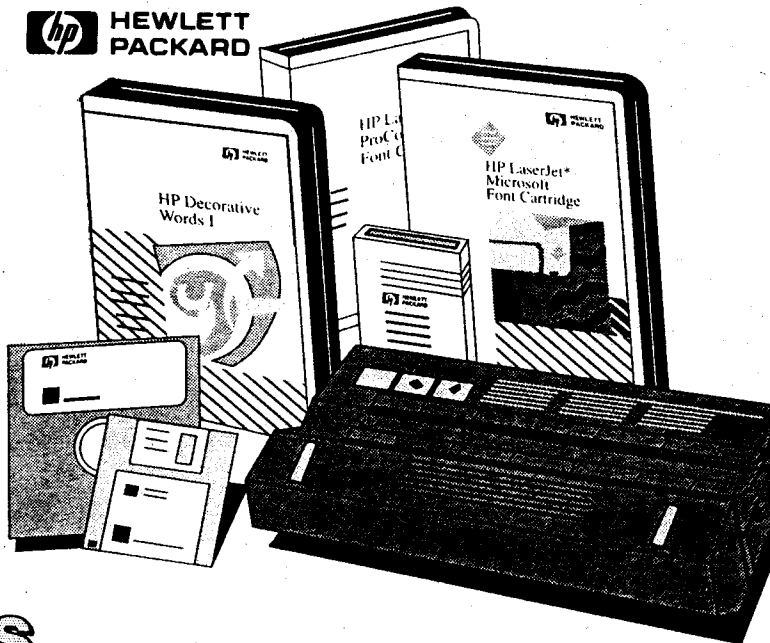
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Stock #92282A [LaserJet 2000 Toner, 1 kg] List \$93.....	\$81.85 \$75.74
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HP Plotter Supplies

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	•		•		•	•

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			Paper Pens		
0.3 mm	0.6 mm	0.3 mm	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	

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



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HP Plotter Supplies



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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			•	•	

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
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Or/Ye/Br/Vi	#17942V #5062-1558	#17943V #5062-1559	#17944V #5062-1572	#17945V #5062-1573
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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
Stock #5061-7578 [Disposable-Pen Adapters & Caps, 4 in pkg] List \$8	\$7.05

Rollerball Pens, 0.3mm (narrow), 4 pens in package

Stock #5061-5033 [Rollerball Pens, Black, 0.3mm] List \$14	\$12.30
Stock #5061-5034 [Roller Pens, Red, 0.3mm] List \$14	\$12.30
Stock #5061-5035 [Roller Pens, Green, 0.3mm] List \$14	\$12.30
Stock #5061-5036 [Roller Pens, Blue, 0.3mm] List \$14	\$12.30
Stock #5061-5037 [Roller Pens, R/G/B/Bl, 0.3mm] List \$14	\$12.30

Refillable Drafting Pens—long body, points

Stock #9260-0579 [0.7mm] List \$25	\$22.00
Stock #9260-0588 [0.35mm] List \$25	\$22.00
Stock #9260-0741 [0.25mm] List \$29	\$25.50
Stock #9260-0742 [0.18mm] List \$32	\$28.15
Stock #9260-0743 [1.0mm] List \$25	\$22.00
Stock #9260-0744 [0.5mm] List \$25	\$22.00
Stock #07580-60025 [Pen, long body, adapter & cap] List \$10.50	\$9.25

Refillable Drafting Pens—short body, points

Stock #9300-0955 [0.18mm] List \$32	\$28.15
Stock #9300-0956 [0.25mm] List \$29	\$25.50
Stock #9300-0957 [0.35mm] List \$25	\$22.00
Stock #9300-0958 [0.50mm] List \$25	\$22.00
Stock #9300-0959 [0.70mm] List \$25	\$22.00
Stock #9300-0960 [1.0mm] List \$25	\$22.00
Stock #5061-8119 [Drafting Pen, short body, adapter & cap] List \$18	\$15.98

Pen Organizers, Acrylic—save desk space

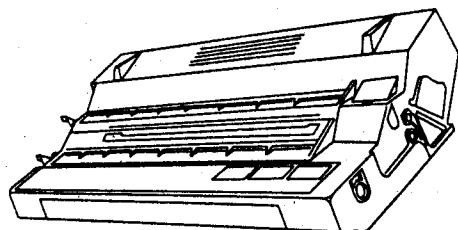
Stock #92177T [Short Organizer, 30-60 pens] List \$43.75	\$38.50
Stock #92177U [Long Organizer, 30-60 pens] List \$46.75	\$41.15
Stock #92177V [Personal Organizer, 33 pens] List \$34.75	\$30.60

Media and plotter compatibility

Use the guide below to identify the media types and sizes supported by your plotter.

Plotter model number	Plotter paper size								Vellum size								Polyester film size								Tracing bond size			Trans. plotter film
	ANSI	A	B	C	D	E	11" roll	Arch. 30 × 42 in.	24 & 36 in. roll	A	B	C	D	E	Arch. 30 × 42 in.	24 & 36 in. roll	A	B	C	D	E	Arch. 30 × 42 in.	24 & 36 in. roll	D	E	A		
ISO	A4	A3	A2	A1	A0	297 mm roll			A4	A3	A2	A1	A0			A4	A3	A2	A1	A0			A1	A0	A4			
Architectural		C	D	E						C	D	E						C	D	E								
7090A	•	•																							•			
7220A/C, 7221A/B/C, 9872A/B/C	•	•							•	•							•	•							•			
7220S/T, 7221S/T, 9872S/T	•	•				•			•	•							•	•							•			
7225A/B, ColorPro, 7470A	•																								•			
7475A	•	•															•	•							•			
7550A, 7550 PLUS	•	•							•	•							•	•							•			
DraftPro, 7570A			•	•							•	•							•	•								
DraftPro DXL, 7575A	•	•	•	•			•		•	•	•	•		•			•	•	•	•		•			•			
DraftPro EXL, 7576A	•	•	•	•	•		•		•	•	•	•	•	•	•		•	•	•	•	•	•			•			
DraftMaster I, SX, 7595A/B	•	•	•	•	•		•		•	•	•	•	•	•	•		•	•	•	•	•	•		•	•			
DraftMaster II, RX, MX	•	•	•	•	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•			
7580A/B	•	•	•	•					•	•	•	•					•	•	•	•				•				
7585A/B	•	•	•	•	•		•		•	•	•	•	•	•	•		•	•	•	•	•	•		•	•			
7586B	•	•	•	•	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•				

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Stock #92285G [LJ Ser. I Toner, brown] List \$149	\$113.95	\$105.72
Stock #92295A [LJ Ser. II, III, IIP Toner, black] List \$125	\$96.95	\$89.95
Stock #92275A [LJ Ser. IIP Toner, black] List \$95	\$74.95	\$69.54
Stock #92291A [LJ III Si Toner, black] List \$169	\$143.95	\$133.54
Stock #92282A [LJ 2000 Toner, 1 kg] List \$93	\$81.85	\$75.74

LaserJet Memory

Stock #33474B [1MB board; LJ IIP, III, IIP/D] List \$230	\$195.50
Stock #33475B [2MB board; LJ IIP, III, IIP/D] List \$390	\$331.50
Stock #C2063A [1MB SIMM, LJ IIISi] List \$169	\$143.95
Stock #C2065A [4MB SIMM, LJ IIISi] List \$499	\$399.00

LJ Scalable Typefaces—Disk Coll. & Indiv., 3 1/2" & 5 1/4"

Stock #C2050A#D80 [Distinctive Documents I] List \$159	\$129.95
Stock #C2050A#D82 [Brilliant Presentations I] List \$159	\$129.95
Stock #C2050A#D84 [Decorative Words I] List \$159	\$129.95
Stock #C2050A#D03 [Decorative I] List \$99	\$87.10
Stock #C2050A#D05 [ITC Zapf Dingbats] List \$99	\$87.10
Stock #C2050A#D06 [CG Century Schoolbook] List \$99	\$87.10
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Stock #C2054B [Premier Collection, 5 1/4"] List \$195	\$171.60
Stock #C2057B [Type Director 2.0, upgrade only, 3 1/2"] List \$40	\$35.20
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Stock #92297F [LJ II, IID, III, IIP Env Tray, 15 envelopes] List \$89	\$78.30
Stock #92211Z [LJ fax stand, all II, all III] List \$94	\$83.50

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Stock #22706B [DJ Prestige Elite Font] List \$79	\$67.00
Stock #22706C [DJ Letter Gothic] List \$75	\$66.00
Stock #22706M [DJ Presentations (ASCII) Font Card] List \$79	\$69.50
Stock #22706R [DJ Times Rom Font Cart] List \$79	\$69.50
Stock #22706T [DJ Helvetica Font Cart] List \$79	\$69.50
Stock #22706W [DJ WordPerfect Carts (2)] List \$140	\$123.20
Stock #22707B [DJ 256K RAM Cartridge] List \$175	\$154.00
Stock #22707F [DJ PLUS/500 Epson Emulation Cart] List \$79	\$69.50
Stock #22707L [DJ Landscape Letter Gothic Font Cart] List \$79	\$69.50
Stock #22708C [DJ Times Rom ASCII] List \$79	\$67.50
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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Stock #12235A [RW Font Cartridge] List \$150	\$132.00
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Stock #92155L [for 2932/33/34A; box of 3] List \$66	\$58.05
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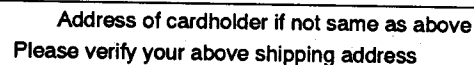
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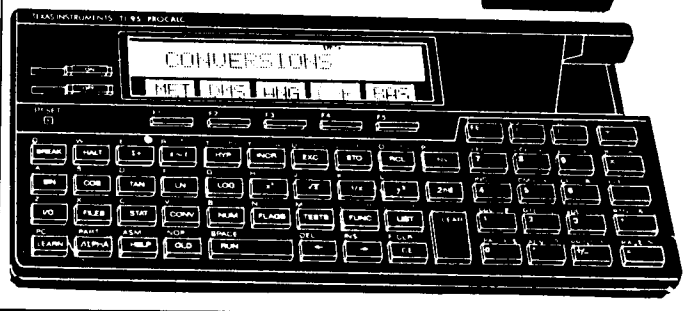
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