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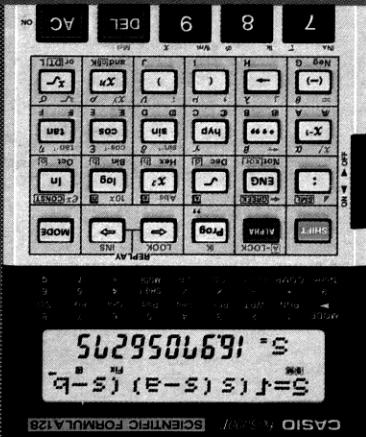
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#45

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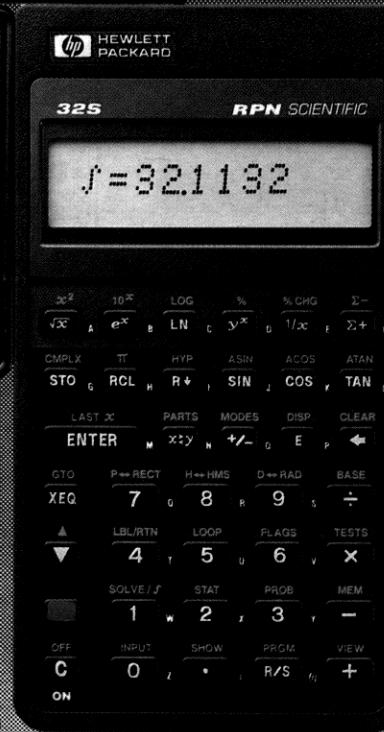
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page 34

SAVE UP TO 81% ■ TI-95 ■ PAGE 75

Calculators and Informators™

HP-10B.....	13
HP-12C.....	16
HP-14B.....	13
HP-17B.....	19
HP-19B.....	20
HP-20S.....	31
HP-21S.....	31
HP-22S.....	32
HP-27S.....	38
HP-28S.....	40
HP-32S.....	35
HP-41CV/CX.....	42
HP-42S.....	39
TI Investment Analyst.....	11
TI Collegiate.....	30
TI Paperless Printer.....	10
TI Personal Banker.....	7
TI BA-II.....	11
TI-30 Stat.....	37
TI-36 Solar.....	36
TI-60.....	36
TI-68 Adv Scientific.....	33
TI-65.....	37
TI-74 Basicalc.....	62
TI-95 Procalc.....	75
TI-1795.....	7
TI-2400 Phone Bank.....	8
TI School Calculators.....	30
TI-SAT.....	30
TI Spell Checker.....	9
Aurora E-Z Spell.....	9
Golf Scorekeeper.....	8
Bedol EXEC-U-CALC.....	7
CI Construction Master.....	9
Dimension Master Plus.....	10
Pay Master.....	11
Prof. Measure Master II.....	10
RE Master, RE Master +.....	11
Time Master.....	11
Canon F-800P.....	36
Palm Printer.....	10
Casio BOSS SF7000 Diary.....	2
BOSS S7500 Diary.....	2
IF-8000.....	7
SF-4000 Digital Diary.....	2
Film Card.....	7
fx-5000F.....	33
fx-7000G.....	36
fx-8000G.....	36
fx-8500G.....	36
CMT MC-II.....	64
MC-V.....	64
Digitool Inch-Mate.....	10
Franklin Language Master.....	9
Psion Organiser II.....	63
Selectronics DataStor.....	9
Sharp Wizard.....	8
EL-5200.....	36
EL-6250 Dial Master.....	10
Financial Calculator.....	10
8-Digit Calculator.....	8
Travel Calculator.....	8



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see inside
back cover

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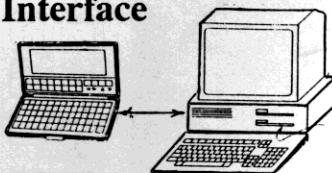


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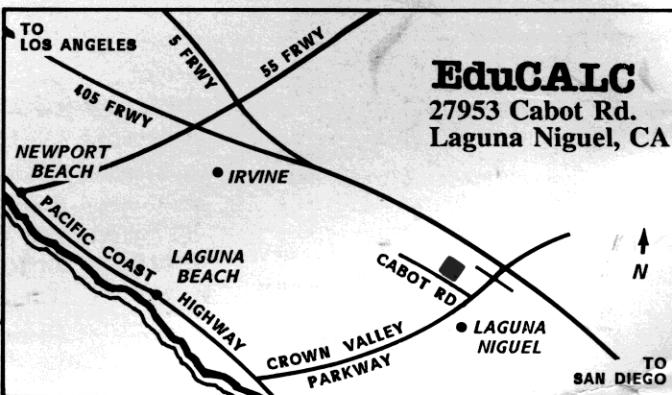
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see page 59

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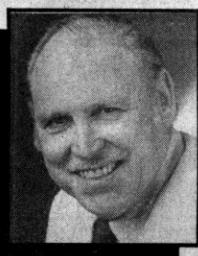
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Dear Reader,

I'd like to hear from you after you look at our "Consumer Comparison" of the TI-68 with the Casio fx-5000F and the HP-32S on page 34—we gave them a hard look and a fair look, so you'll know which is best for you. Is this comparison useful to you? What are your questions?

I've got many other new features and products for you in this issue. HP is offering a FREE BACKPACK--see coupon on page 32.

There are SALE ITEMS on nearly every page--be sure to check these out--

- 1) a new SUPER SAVINGS for the advanced scientific programmable TI-95 (see inside back cover)
- 2) we have more USED HP GEAR at rock-bottom prices (see page 59)
- 3) 70% OFF on the HP-IL to Video Interface (see page 56)

Remember, too, that our no-questions-asked return policy--satisfaction guaranteed--applies to all our sale items (including used gear) as well as to every brand new product in our catalog. Go ahead and order it if you think you want it--just send it back if it doesn't suit you.

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.



Table of Contents

Index	4	HP-IL Interface Loop	55
For Your Information	5	HP-IL Surplus Gear	59
Personal Calculators	7	HP-71 Computer	60
Business Calculators	11-20	Handheld Computers	62
Stands, Cases, Batteries	13	Laptop Computers	65
PC Software & Bookware	21	PC Solvers/Calculators	66
Reference Aids	26	Numerical Analysis	67
School Calculators	30	Computer Science	68
Scientific Calculators	31	Mathematics	69
HP-41 Calculators	42	HP Supplies	70

Index

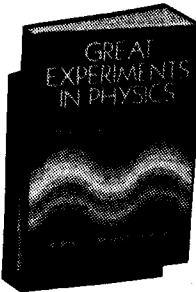
8087/82087 Math Coprocessors	68	Fractals, the Beauty of	5	Prgrm Exmpls & Techniques	39	Programs for Scientists, Engrns	67
Algorithms	68	Fractals Everywhere	6	Solution Books for HP-42S	39	Project (MicroSoft)	24
App Software for EL-5500, PC-1403 Sci Computer	65	Functions, Approximations of	29	Surveying Solutions	39	Psion Organizer II	63
Archimedes' Revenge	6	Functions, Tables of	27	HP-71B Application Pacs	61	Psion Organizer II, Using	65
Arithmetic Refresher	26	Golf Scorekeeper	8	Accessories/Batteries	60	Putting 1-Min Mgr to Work	24
Armchair Universe	6	Graph	25	Memory/Special Modules	60	Quanti Info, Visual Disp	24
Astronomical Methods	69	Great Experiments in Physics	5	Peripherals	60	Quantitative Sys/Business	24
Astronomy, Practical, w Calc	69	Hard Disc Management	22	Programmers' Aids	62	Quattro-Professnl Spreadsheet	22
AutoSketch	25	Home Planet, The	6	Soft/Bookware	61	Quattro, Using	22
Bar Coding Systems, Hndbk	24	Hook-uP	43	HP-IL Interface Loop:		QuickBASIC Compiler (MS)	26
Basic, Sharp	65	Hewlett-Packard Calculators:		Accessories	57	QuickBasic for Scientists	26
Batteries	13	HP-10B	13	Bookware	57	Quick Ref Guide (MS-DOS)	22
Bridges to Infinity	5	HP-11C Solutions Hndbk	37	Disc/Cass Drives	55,58	Real Estate Mathematics	11
Business Calculator Guide	12	Easy Course Prgrmmng 11, 15C	37	Interfaces	55	Riddles of the Sphinx	6
Business Math Using Calc	10	Substantial Pgrms for 11, 15C	37	Programmers' Aids	57	Rightwriter	23
CD ROM	22	HP-12C	16	HP-IL Link	56	Roark's Formulas, Stress/Strain	27
CALC-41	66	Cash Flow Analyzer	17	HP ThinkJet Printer	58	RS232 Made Easy	69
Calculator Calculus	37	Easy Course in Using the 12C	16	HP Thinkjet PC Printer	25	Save These Telephone #'s	18
Calculus Refresher	26	HP-12C Leasing Appi Hndbk	18	HP Supplies	71	Schaum's Outline Series	11,29,68
Canon F-800P	36	HP-12C Made Easy	17	HP Surplus Gear	59	Self-Paced Training for 1-2-3	22
Palm Printer	10	HP-12C Pocket Guide	17	IBM PC, Microcmpr Exper	68	Sharp Dialmaster	10
Cases	15	HP-12C Solutions Handbook	17	IBM Programs for Business	24	EL5200 Graphic Sci Calc	36
Casio BOSS SF-7000 Diary	2	HP-12C Training Guide	17	Inch-Mate	10	Financial Calculator, 8-digits	10
BOSS SF-7500 Diary	2	Investment Securities Guide	18	InfraRed Printer	19	Handheld Calculator, 8-digits	8
Film Card	7	Programming Hints for 12C	17	Instat-SC	24	Travel Calculator	8
fx-5000F	33	Quick Ref Guide for 12C	16	It's Amazing	6	Wizard	8
fx-7000G/8000G/ 8500G Graphic	36	RE Applications Handbook	18	Keyboard Overlay (HP-18C)	21	Speed Learning	27
IF-8000	7	RE Financial Analysis	17	Labtech NOTEBOOK	69	Stands	14
SF-4000 Digital Diary	2	Time Value of Money	18	Language Master (Franklin)	9	Statistical Analysis for Engrns	23
Chart (MicroSoft)	25	HP-14B	13	Laser Pointer	7	Computing, Basic	24
Chemistry Collection, The	52	HP-15C Adv Functions Hndbk	37	Learning DOS (MS)	22	Data Analysis Handbook	24
Complete Reference Books	22	Easy Course using HP-16C	68	Linear Algebra, Intro to	69	Statistics at Your Fingertips	24
CompView	67	HP-17B	19	Link Plus	56	Statistics, Applied	24
CI Construction Master	9	Easy Course using HP-17B	19	MC-II	64	Tech/Word	23
Dimension Master Plus	10	HP-17B Pocket Guide	19	MC-II POD	65	Technical Market Indicators	21
Pay Master	11	Step-by-Step Bks for Business	19	MC-V	64	Technical Notes (EduCALC)	42
Prof Measure Master II	10	HP-19B Business Consultant II	20	MS-DOS Handbook	22	Thirty Years that Shook Physics	5
RE Master, RE Master +	11	Easy Course in using HP-19B	21	Masterthinker II	27	TI 1795	7
Time Master	11	HP-19B Pocket Book	20	Math Calendar, 1990	5	2400 Phone Bank	8
Consumer Comparisons—Mid- Range Scientific Calculators	34	HP-19B Pocket Guide	21	Math Series, Kemeny/Kurtz	70	30 Stat	37
Curve Fitting	24	Step-by-Step Bks for Business	20	Mathematical Experience	7	36 Solar	36
Data Analysis, Graph Meth	25	HP-20S	31	Functions, Handbook of	29	60	36
DataStor 8000C	9	HP-21S	31	Meth in Physics, Engrn	28	65	37
DataStor 8000D	9	HP-22S	32	Tourist	7	68 Adv Scientific	33
Derive	69	Easy Course in HP-22S	32	Contents, Methods, Meaning	29	74 Basicalc	62
Descartes' Dream	28	HP-27S	38	for the Nonmathematician	5	95 Procalc	75
Dictionary of Phys Sciences	26	Adv Solns using HP Solve	38	Handbook of	29	BA-II	11
Directory Window	22	Easy Course in using HP-27S	38	Joy of	6	Collegiate	30
E-Z Spell	9	Step-by-Step Solutions Books	38	Queep/Servant of Science	6	Investment Analyst	11
Electronic Conversions	27	Mastering the HP-27S	38	VNR Encyclopedia of	28	Paperless Printer	10
Electronics Calc, Hndbk of	26	HP-28S	40	Matrices, Theory Num Anal	67	Personal Banker	7
Engineering, Encyclopedia of	28	Adv Circuit Analysis	41	MINSQ	67	SAT	30
Existential Pleasures of	28	Customize your HP-28S	41	muLISP-87	25	School Calculators	30
Examples in Engrn Math	28	Easy Course using HP-28S	41	muMATH	69	SpellChecker	9
Formulas	29	HP-28 Classroom Display	41	Numerical Methods, Basic	67	Time and Money	21
Equations, Solving/ Physical Understanding	29	HP-28 Insights	41	Methods, Scientists/Engrns	67	Toshiba	
Standard Handbook	28	HP-28 Pocket Book	41	Recipes	67	T1000 Portable PC	65
Exec-U-Calc	7	HP-28S Software Power Tools	41	One, Two, Three . . . Infinity	5	T1200 Portable PC	65
Excel (MicroSoft)	22	Step-by-Step Bks: 28S, 28C	41	1-2-3 Desktop Comp (Lotus)	23	T1600 Portable PC	65
Excel, Mastering on IBM PC	22	HP-32S	35	1-2-3 for Scientists/Engrns	23	Turbo Assembler/Debugger	25
EXP	22	Tips/Pgrms for HP-32S	35	Operations Research: Appl/Alg	24	Turbo Basic	25
EXP, Essentials of	23	HP-41CV/CX	42	PC Hypercalculator	66	Turbo C (Borland)	26
f(z)	69	Accessories	44	PC-Interface Cable	62	Turbo Pascal (Borland)	26
Fields&Operators	66	Application Pacs	45	PC Link Interface (Casio)	2	Turbo Pascal: Num Meth	26
Fin Analysis, Quant Meth	21	Batteries/Rechargers	44	PC Point Storage Conversions	51	Turbo Prolog (Borland)	26
Financial Time Ser, Modelling	21	EPROM Modules	49	PC Spiral Curve Solutions	51	Turbo Prolog, Power of	26
Formulas, Facts, Constants	28	Memory Modules	44	PC Survey Field Solutions	51	Video Math Tutorials	68
Fortran for Scientists/Engrns	26	Peripherals	43	PC Triangle Solutions	51	Video Prof for dBASE III	22
Fractal Images, Science of	6	Soft/Bookware	50	PLOT88	25	WordPerfect Desktop Comp	23
FractalMagic	6	Synthetic Programming	54	Pocket Reference Books	22	Xact	65
		HP-42S	39	Pop-Up PC-12C	18	XREF41	66
		Adv Circuit Analysis	39	PrintAPlot	25	Yield Curve Analysis	21
		Easy Course in Using HP-42S	39	Programming in C	26	Z88	66
		HP-42S Quick Ref Guide	39	Programs, Sci/Engr/Financial	36		

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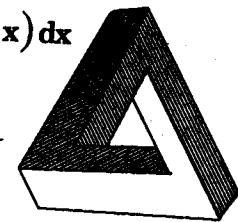
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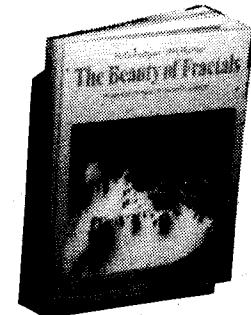
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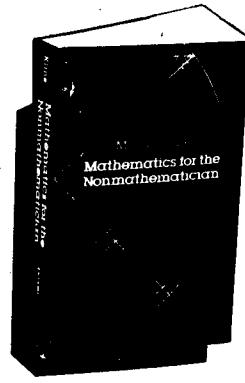
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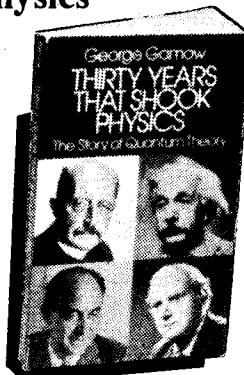
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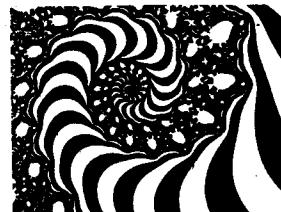
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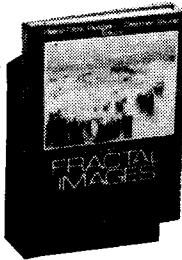
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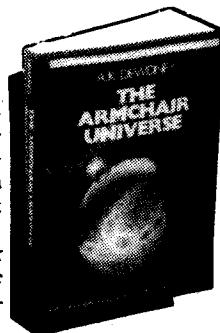
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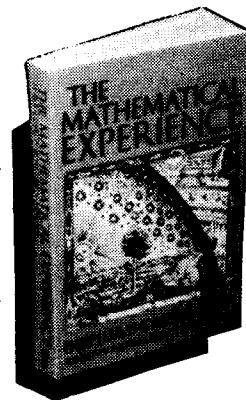
Personal Calculators, Dialers, Diaries

The Mathematical Experience
by Davis/Hersh

Not a mathematics book, but a book about the entire, rich, diverse world of mathematics—history, philosophy, esthetics. Read about its personalities in biographical sketches interwoven with accessible yet authoritative discussions of their work.

"A true gem, one of the masterpieces of our age."—*The American Mathematical Monthly*.

Stock #M-168, *Mathematical Experience* 440p soft.....\$12.65



The Mathematical Tourist
by Ivars Peterson



Snapshots of modern math for everyman—chaos and order, cryptography and code-breaking, labyrinths, higher dimensions, soaring fractal towers, topology, . . . *Science News* journalist Peterson brings exciting news to the pro, yet he writes with skill instead of equations, diagrams and color illustrations instead of algorithms—so amateurs can share the pleasure and the thrills.

" . . . really new developments in the field . . . accurate yet accessible," says Ronald Graham, Director, Math Sciences Research Center, Bell Labs.

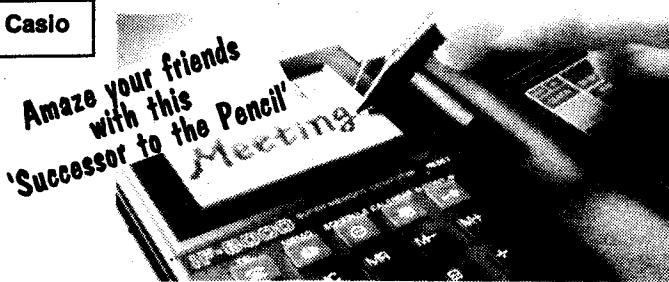
Stock #A-2071, *Mathematical Tourist*, 240p hardbound\$17.95

LASER Pointer

Stock #A-2092 [Laser Pointer] List \$500.....\$349.95

IF-8000 Screen-Write Digital Diary

Casio



You write and draw right on this screen—diagrams, charts, handwriting, doodles . . . even large maps or illustrations can be stored with expand-function that gives a 8½ x 6 inch virtual screen!

Telephone directory shows 8 names at a time—touch a name on the screen to see that person's phone number—up to 630 can be stored (16K memory).

Full-month calendar pops up when you enter a date before 2099—touch for last or next month.

Your schedule is symbolized on the calendar—touch a week or a day to see its items—touch an item to access your detailed notes for it. Personal data can be secret.

Memos for currency rates, formulas, price lists, airplane schedules, anniversaries, street maps, logos, conversion tables . . .

There's never been anything like this—and it's a 7-function calculator, too!

Stock #IF-8000 [Screen-Write Diary] List \$180\$159.95

Stock #CR2032 [Replacement Battery, req 3].....\$1.95

EXEC-U-CALC

Clip-in Calculator

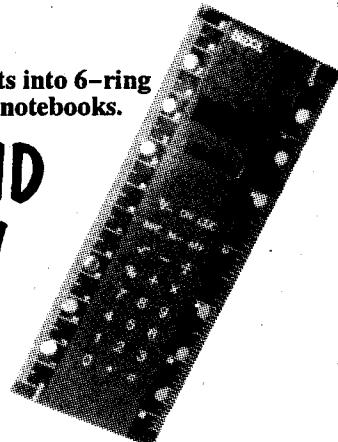
It's there when you need it—fits into 6-ring organizers or 3-ring standard notebooks.

BEDOL

**BRAND
NEW**

It has holes on right and left edges for your binder and is wafer thin—only 3/32 inch. Solar powered with 8 digit LCD readout and memory. Inch and metric rulers along edges—handy conversion tables on back.

Stock #C-2165 [Exec-U-Calc] List \$15.....\$11.95



Personal Banker Calculator

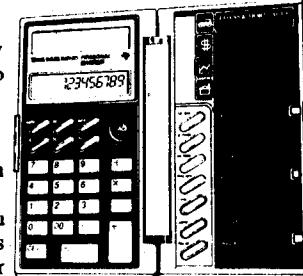
**TEXAS
INSTRUMENTS**

Now—the financial calculator for every man and woman. Gives simple answers to time-and-money questions like

- "What will my investment be worth?"
- "What will my loan payment be?"
- "How much do I need to save every month to reach my goal?"

Has 4 built-in Help Cards that guide you using the special financial keys. Also operates as 4-function calculator with memory. Solar cell power works even in dim light.

Stock #TI-PB [Personal Banker] List \$50.....\$39.95



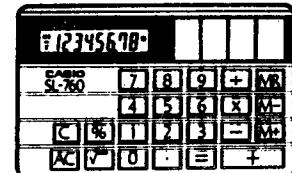
Calculator batteries, stands & cases—see pp 13-15

Film Card Calculator

Casio

Take it with you—wherever you go. 8-digit LCD, percent, square root, 3-key memory, solar power, and it's only 0.1" thick. Pouch included.

Stock #SL760 [Film Card Calculator] List \$9.....\$5.95



Big Little Solar Desktop **Sale**

We're not usually excited by a new 7-function calculator, but this one is a fine engineering compromise.

It has surprisingly BIG keys with BIG spaces between them yet it's LITTLE overall, measuring 4.2 x 4.8 x 1.1 inches. Three-key memory, percent, square root. And SOLAR means it's reliable for occasional use—so you never turn it off and it never runs down.

Stock #TI-1795 [Solar Calculator] List \$13.....\$9.95

**TEXAS
INSTRUMENTS**



**Check out anything you want without risking a penny.
At EduCALC you get a two week return privilege.**

Personal Calculators, Dialers, Diaries

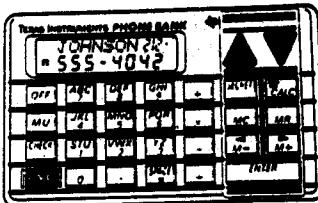
TI-2400 Phone Bank



You'll have 150 essential names and numbers right in the palm of your hand—phone numbers, birthdays, bank account and social security numbers, personal access codes, lock combinations, or whatever.

You can protect some items with password. Find entries alphabetically or by scrolling. Includes 4-key memory calculator. Auto power-down.

Stock #TI-2400 [Phone Bank] List \$30 \$23.95



Golf Scorekeeper

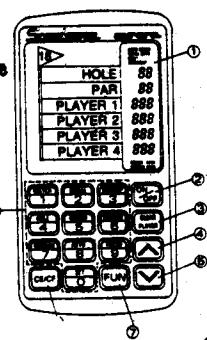
Aurora

You can concentrate on your golf, not your math—and still be sure where you stand!

- Keeps scores for up to 4 players
- Stores scores for up to four 18-hole rounds
- Adjusts for players' handicaps
- Calculates Medal play or Match play for 2 players or teams
- Calculates a full Nassau with auto or manual Press function

Clip wallet, manual included; 1 yr warranty.

Stock #GF21 [Golf Scorekeeper] List \$60 \$42.95



Calculator batteries, stands & cases—see pp 13-15

8-digit hand-held calculator

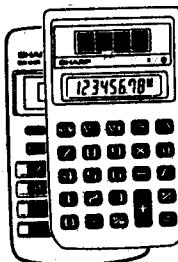
Sharp

Ergonomic, contoured design with rounded square keys. 3-key memory, oversize '+' key, one-touch percent key for fast add-on/discount calculations, square roots.

Battery included in EL-233; similar EL-243 is solar (80 lux).

Stock #EL233 [Basic Calculator] \$4.95

Stock #EL243 [Solar Calculator] \$5.95



The World's Favorite Travel Calculator

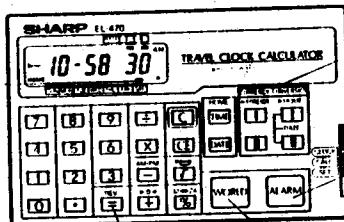
- Clock/Alarm/Calendar
- Currency Conversion

Sharp

Shows day and date of week—24 hour AM/PM alarm—world clock for distant time zones and easy switch-over to home time.

Currency conversion with 2 rate memories—arithmetic with square root and one-touch percent key for add-ons. Battery, wallet, quick guide included.

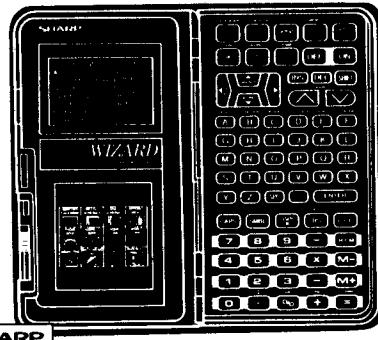
Stock #EL470 [Travel Calculator] List \$35 \$28.95



Wizard

Sharp

Now—
Hook it up
to your PC



SHARP

All you wished for—a Pocket Secretary, with 7 Exciting Powers.

Huge 32K RAM—holds 16 pages of densely typed text, and there's 25K of ROM, too. 8 line x 16 character LCD screen is easy to read in any light.

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 to 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 easy repeated input.

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

Optional Software expands your Wizard's Powers

ROM cards slide in a slot with state of the art, touch-sensitive keypad to give you huge additional programs and data.

language translator—369 phrases and 600 common words in English, French, German, Spanish, Italian, Swedish, Chinese and Japanese.

dictionary/thesaurus—checks spelling of 87,000, showing hyphenation and alternatives—plus 45,000 entries for 500,000 words.

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.

Optional PC Interface

Organizer Link with Converter has all hardware and software, both 5 1/4" and 3 1/2", 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 #OZ-7000 [Sharp Wizard] List \$300 \$249.95

Stock #OZ-703 [Language Translator] \$99.95

Stock #OZ-702 [Dictionary/Thesaurus] \$129.95

Stock #OZ-701 [Time/Expense Management] \$119.95

Stock #CE-50P [Thermal Printer with Cassette I/F] \$169.95

Stock #EA-23E [Printer Adapter] \$7.95

Stock #EA-1250P, Thermal Paper (5 rolls) \$1.95

Stock #OZ-791A [Organizer Link/Conv] \$129.95

To communicate between Wizards—

Stock #OZ780 (32K RAM Card) \$64.95

Stock #OZ781 (64K RAM Card) \$99.95

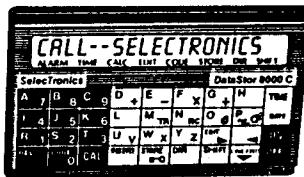
Stock #CE152 (Cassette Recorder) \$79.95

Stock #CE200L (Dubbing Cable) \$24.95

Personal Calculators, Dialers, Diaries

DataStor 8000C

Selectronics



The World's Smallest 8K Memory Pocket Computer

- Electronic Directory
- 16 Message Alarms
- Calculator
- Security
- Time/Date
- Back-up Battery

Credit-card size—this high capacity data bank stores 60 entries of up to 128 characters each. Leather-like case; 90 day warranty. See cables below.
Stock #ST8000C [Data-Stor, card] List \$50\$39.95

DataStor 8000D

Selectronics

Brand New



Same state-of-the-art electronics as the credit-card size 8000C above, but in desk-top format—roughly 5" square—with big keys and big display.

Stock #ST8000D [DataStor, desktop] List \$50\$39.95

Yes, you can transmit data from one DataStor instrument to another, automatically, or to and from your PC/compatible, using these adapter cables.

Stock #STCA01 [DS/DS Cable] List \$8\$6.95

Stock #STCA02 [DS/PC Cable] List \$40\$34.95

Language Master

Franklin



Brand New

spelling and hyphenation—including plurals and suffixes.

dictionary definitions—a big Merriam-Webster-full (80,000 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. Just pick one of these and your machine will tell you what that one means and how to use it. Then 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.

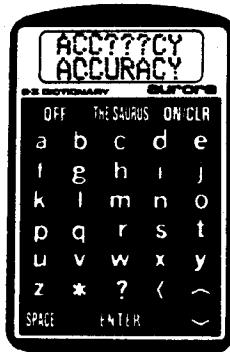
Stock #LM2000 [Language Master] List \$250\$199.95

Calculator batteries, stands & cases—see pp 13-15

**E-Z Spell
Pocket Size
Spelling Checker**

Aurora

Brand New



Checks spelling of 88,000 words.

Checks spelling phonetically of 15,000 commonly misspelled words.

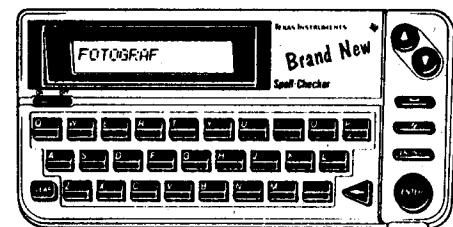
Ideal for word games—cross-word puzzles, hangman, scrabble, etc.

Easy-to-read dot matrix LCD.

Stock #SC-5 [E-Z Spell] List \$100.....\$59.95

**Spell-Checker
quickly displays 93,000 words**

TEXAS
INSTRUMENTS



phonetic entry—KWALITY becomes QUALITY

ENDINGS key—gives you word roots, common endings

WILD CARD key—finds missing letters for crossword puzzles

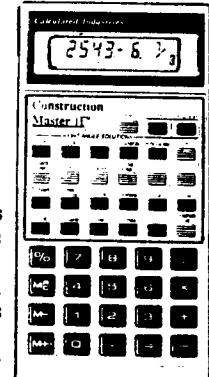
MISSING SERIES key—fills in a group of missing letters

Typewriter-style keyboard that's familiar and comfortable. Big 15-character dot-matrix LCD. Manual, batteries, slide case included; 1 yr warranty.

Stock #TI-SC [Spell-Checker] List \$95\$74.95

**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 #CI-CM [Construction Master II] List \$80\$69.95

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

Personal Calculators, Dialers, Diaries

INCH-MATE

The affordable

Foot/Inch/Fraction Calculator

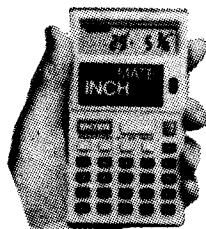
Digitool

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

+, -, x, ÷, square or square root, in Ft/In/Fraction to 1/16", or Decimal Feet or meters—convert back and forth! Find 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 #DC-INCH [Inch-Mate Calculator] List \$50 \$39.95



Dial Master Electronic Memory Calculator/Dialer

Sharp

Your computerized little black telephone book, memo pad, calculator, and autodialer (4 instruments in 1). Auto or manual tone dialing with 1 touch for last-number redial.

Store over 400 two-line names and numbers and it will search among them by name or by company. Secret function with password for your private friends. Calls can be charged to your credit-card number, and you can use Dialmaster to authorize access to your computer.

80-character entries for numbers or memos. Handy CALCulator mode for quick arithmetic. Backup battery holds memory even if main battery is low. All this in a thin 2 1/2 x 5 inch package that will be unnoticeable in any pocket.

Wallet, manual, quick-reference guide.

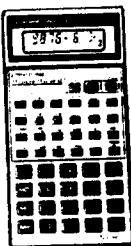
Stock #EL-6250H [Dial Master] List \$90 \$69.95



Professional Measure Master II

Calculated
Industries

Brand
New



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 #CI-PMM [Prof Measure Master II] List \$90 \$79.95

Dimension Master Plus

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

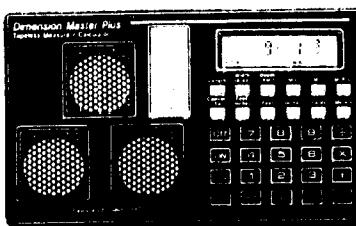
Calculated
Industries

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 #CI-DMP [Dimension Master Plus] List \$100 \$93.95



Business Math Using Calculators

by
Burton/Shelton

Brand
New

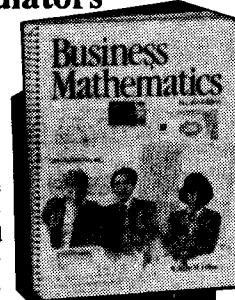
■ Develop your business math skills.

■ Revive long-forgotten skills.

Refresh on any topic, or learn them all, the easy way, with your calculator—from the fundamentals and arithmetic right through pricing and purchasing, metrics, payroll, taxes, insurance, financial accounting, interest, bank records, credit, investments.

Each chapter starts with an example and its step-by-step solution, then goes on to practice problems. There are lots of tips, shortcuts and reminders to help you—you can enjoy learning this way.

Stock #G-2169, Bus Math—Calculators, 522p spiralbnd \$23.95



8-Digit Financial Calculator

Sharp



- choice of battery or solar power
- computes amortization, interest, bond price
- statistics with mean and standard deviation
- annual rate/effective rate conversion
- easy calculation of monthly payment problems
- percent and delta percent functions

Model 731 comes with batteries—has power-off memory; solar model is 50 lux. Both come with user-friendly manual that describes many real-life applications.

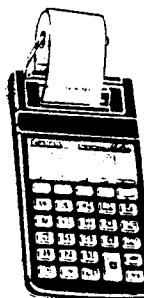
Stock #EL731 [Battery Financial Calculator] List \$30 \$22.95

Stock #EL731S [Solar Financial Calculator] List \$36 \$26.95

Palm Printer Calculator

Canon

NEW—
Makes life easier



Prints on 1 1/4" plain paper tape, yet small enough to hold in your hand and drop in your briefcase. Eight digit, percent, square-root and memory (all in less than 1/2 lb).

Includes roll of paper and 3 AA batteries.

Stock #CN-PZ-D [Palm Printer] List \$23 \$19.95

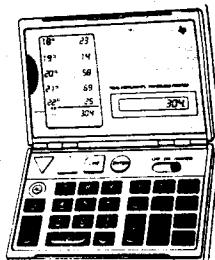
Paperless Printer Calculator

TEXAS
INSTRUMENTS

Surprisingly useful—all the convenience of a printing calculator, to review and verify and adjust your work, yet it's a lightweight portable that folds to fit in your pocket!

A special 6-line display scrolls through up to 100 entries and totals, along with an audit trail that shows the operations performed on each entry. It lets you review and revise, and remembers the whole problem even when turned off. Batteries included.

Stock #TI-PP [Paperless Printer] List \$65 \$49.95



Calculator batteries, stands & cases—see pp 13-15

Business Calculators

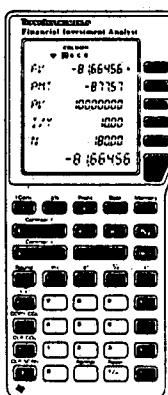
the ultimate calculator for Financial Professionals, with multiline display and 10 built-in worksheet models!

TI Financial Investment Analyst

- 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 #TI-FIA [Financial Invst Analyst] List \$175.....\$114.95



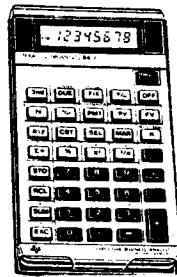
TI Business Analyst II

TI's Best-Selling Financial Calculator

Built-in formulas give you a new ease in the world of business and finance. Standard math functions such as square root are provided in addition to statistical functions such as mean, standard deviation and linear regression.

Business functions include lease/buy options, loan amortizations, sales/earning forecasts, and real estate mortgages, all without going through manual table look-ups. With the Executive Calculator Guidebook (included) you'll find over 200 easy-to-follow business and personal situations described.

Stock #TI-BA II [Business Analyst II] List \$45.....\$39.95



Calculator batteries, stands & cases—see pp 13-15

The Only Easy Owner's Guide to the Business Analyst-II

by Rick Fournier

Impress your client (or your boss) with instant 'what-if' calculations and precise bottom lines. Seminar leader Fournier takes you on a friendly, no-nonsense tour of ALL the BA-II's features.

He sets up practical problems you'll understand, then works them out completely as examples. He explains the background with a nuts-and-bolts approach you can learn from, then shows you the keystrokes and even lists the display readouts you'll see along the way.

Stock #TI-668, BA-II Guide, 43p combound.....\$7.95

\$10.95

Sale
While
they last

Mastering Real Estate Mathematics 5th edition

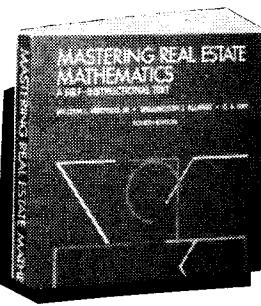
by Ventolo/Allaway/Irby

Learn to be at home with figures—sharp—en your skills! Self-instruction works—if you do the exercises here you'll get immediate feedback in easy steps to real achievement.

Completely worked-out answers check your progress. All examples are given for calculators that use algebraic logic (such as TI's instruments and the new HP machines). A special section covers the use of the HP-12C.

All topics are wrapped up with sample multiple-choice questions patterned after state license exams. At the end there are two sample Final Examinations.

Stock #463, RE Math, 359p softbound.....\$25.95



Real Estate Master & Real Estate Master Plus

Calculated Industries

Brand New

- Simple—just for Real Estate.
- Fast—everything's built in for you.
- Accurate—better than many lending-officers' methods.
- Dramatic—closes sales with quick figures.

Find principal and interest for single payment or any range of payments—remaining balances with a single key. Date/Listing function instantly adds 90 days to date and shows expiration date. You can change entries for what-if calculations. You'll see labels—PMT, TERM, INT, etc.—so you'll always know what you've calculated.

PLUS model qualifies buyers on entire PITI payment, does adjusted payments on ARMs, computes Bi-Weeklies too.

Both models come with plastic case, User's Guide, 1 year warranty.

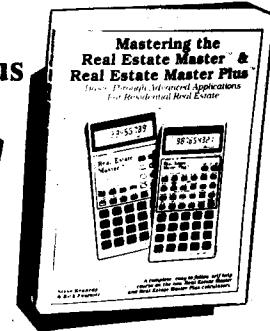
Stock #G-2157 [Real Estate Master] List \$40.....\$34.95

Stock #G-2158 [R/E Master Plus] List \$60.....\$49.95

Stock #G-2159, R/EM Study Guide, 224p softbound.....\$9.95

Stock #G-2160 [R/EM Leather Case, black].....\$9.95

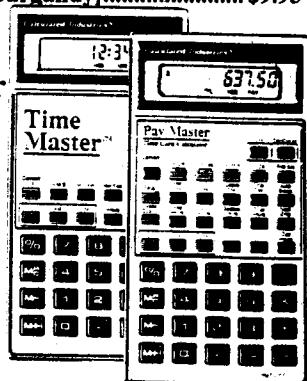
Stock #G-2161 [R/EM Leather Case, burgundy].....\$9.95



Time Master Professional Time Calculator

Calculated Industries

Brand New



Automatically calculate and convert—hours/min-seconds, min/seconds—add/subtract/mult/divide time—even work in mixed time formats. 12/24 hour. Full timer with lap function. Memory.

Includes plastic case, User's Guide, 1 year warranty.

Stock # G-2163 [Time Master] List \$60.....\$49.95

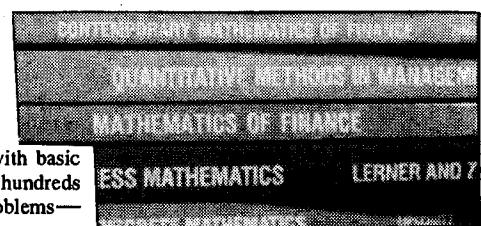
Pay Master Time Card/Payroll Calculator

Calculated Industries

Quickly figure hours and pay—regular, overtime, special and total—simply and easily—it's automated! Calculate in and out times, 12 or 24 hour formats, convert time formats, add/subtract/mult/divide time values. Memory.

Includes plastic case, User's Guide, 1 year warranty.

Stock # G-2162 [Pay Master] List \$80.....\$59.95



Schaum's Outline Series

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

Stock #G-2128, Business Mathematics.....\$9.95

Stock #G-310, Business Statistics.....\$10.95

Stock #G-2129, Mathematics of Finance.....\$9.95

Stock #G-2130, Quantitative Methods in Management.....\$9.95

Business Calculators

Selection Guide to HP Business Calculators

Each Model Has:

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

	HP-10B <i>Business essentials plus HP quality</i>	HP-14B <i>Built-in ROI, break-even and inventory analysis</i>	HP-19B <i>The ultimate for personalized business solutions</i>	HP-17B <i>Delivers more than any calculator in its class</i>
Built-in Functions	Over 100	Over 120	Over 450	Over 250
HP's Ease-of-use Features				
Labels, prompts and messages	◆	◆	◆	◆
Softkeys and menus				
Multiple lines of display				
Physical and Operating Features				
LCD Display size				
Keyboard				
Storage registers				
Additional user RAM ¹				
3-key memory ($\rightarrow M$, RM, M+)	◆			
Automatic constant (K Key)	◆			
Business Graphics				
Scatter diagram/curve fit				
Histogram				
NPV versus interest rate				
Time and Data Management				
Clock, calendar, appointments and alarms				
Date arithmetic				
Edit, search, sort & store names, etc.				
Edit, sort & store lists of numbers				
Subtotals, copy lists, label items				
Business/Financial Features				
Print table with HP 82240A				
Bond price and yield				
Breakeven, inventory turns, ROI%				
Cash flow analysis				
Cash flow functions				
Number of cash flows				
Currency conversions				
Depreciation methods				
Unit of Measurement Conversions				
Statistics/Mathematics Features				
Statistical analysis				
Curve fitting methods				
Other statistical functions				
$\log 10^x$ π x^2				
Trigonometry, probability, hyperbolics				
Customizing Features				
Customizing method				
Conditional tests				
Custom menus: user defines variable names				
Solve for any variable w/o programming				
Peripherals and Software				
HP application-specific solutions, books				
Optional infrared printer (HP 82240A)				
EduCALC price	\$41.95	\$61.95	\$84.95	\$134.95

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

¹Includes business, scientific, operational, customizing.

²HP-17B has letters accessible through softkeys.

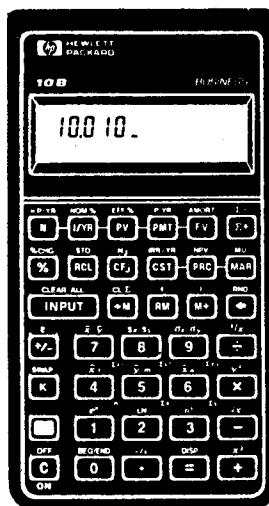
³Additional user RAM for storage of user-defined equations and their variables, as well as for name and number lists.

Business Calculators

HP-10B

Algebraic entry—
for Business Professionals
and Students

Now—
Traditional HP reliability
is affordable



The HP-10B is the ONLY calculator under \$50 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.

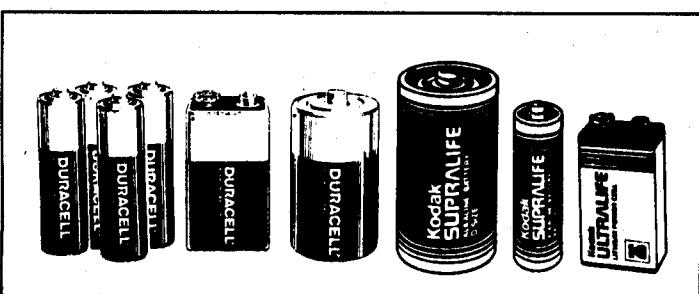
□ **Statistics and math functions**—1- and 2-variable statistics with mean, weighted mean, sample and population standard deviations, forecasting and linear regression, basic math functions.

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 #HP-10B [Business Calculator] List \$50 \$41.95

Calculator Stands,



Batteries

► **Kodak dependability**
► **Longer life expectancy**

Kodak



Protect your instrument from leakage and corrosion with Kodak's superior design and triple testing—it's guaranteed.

HP-14B Algebraic Calculator

Smart Business at a Smart Price



- Business Students
- Professionals
- Small-business Owners

hp HEWLETT
PACKARD



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 #HP-14B [Algebraic Business Calculator] List \$80..... \$61.95

Stock #14-2106, Business Student Appl..... \$9.95

Cases & Batteries

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 see the HP-41 section of this catalog for them.

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	Hard Stands & Leather Wedges Cases
TI-BAII, 30, 36, 55III, 60	2xA76	642
TI-CC Collegiate		769, 811, 2025
TI-FIA Financial Analyst		2xCR2032
TI-PB Banker		2078
TI-PP Paperless Printer		858, 998
TI-65 Technical Analyst	2xA76	92177S
TI-SC, 74, 95	4xAAA	569
TI-2400 Phone Bank		1xCR2016
Aurora GF-21, SC-5		2xCR2025
CI-CM, GAM, PMM	2xA76	642, 2127 2078
CI-DMP	4xAAA	
Canon F-800P	2xA76	549, 629, 858, 998, 92177S 2078
Canon CN-PZ-D Palm Printer	3xAA	
Casio JE-8000 Diary	3xCR2032	

Manufacturer & Stock No.	Battery No. x Size	Stands & Wedges	Hard Leather Cases	Soft Leather Wallets	Vinyl Cases
HP-10B, 14B, 17B, 20S 21S, 22S, 27S, 32S 42S	3xA76	538, 642, 2127	2062	92169K, L, M 2068, 2070	82243A
HP-18C, 19B, 28C, 28S	3xN	769, 811, 2025	2063	92169D/E/F	
HP-11C, 12C, 15C, 16C	3xA76	549, 629, 858 998, 92177S	513, 2078	688N/Y/K 92169B	82174A
HP-41C, 41CV, 41CX	4xN	538,	511/2 642, 2127		82111A
HP-71B	4xAAA	569	574		82463A

Manufacturer & Stock No.	Battery No. x Size	Stand & Leather Cases
Casio fx-7000G/8000G	3xCR2032	
Casio SF4000	3xCR2025	
Casio SF7000, SF7500	2xCR2025	
Casio A-918 Dialer	1xCR1616	
Casio A-919 Alarm	1xCR2016	
CMT MC-II, MC-V	5xAA	2104
Digitool DC-INCH	2xA76	2078
Franklin FC-SCM	2xAAA	642, 2127
Franklin LM2000	4xAA	
Psion CM, XP	1x9V	
Selectronics ST8000C	1xCR2025	
Sharp OZ-7000 Wizard	2xCR2032	769, 811, 2025
Sharp EL470 Travel	2xCR2032	
Sharp EL731 Financial	2xA76	642
Sharp EL-5200, EL-6250H	2xCR2032	2078

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



Smoky acrylic stand—simple and handsome.

Stock #569 [Acrylic stand: Smoky] \$15.95
Stock #92177S [Acrylic stand: Smoky] \$14.95

Clear plastic folding stand—solidly mounts with high-bond tape pads onto back of instrument so battery is accessible and data on back is visible. Folds on calculator to fit right into original case.

Stock #549 [Folding stand: Clear] \$8.95

Stainless steel stand—Attaches with super adhesive to the back of your instrument, offers 2 viewing angles, fits into original case, and looks good.

Stock #538 [Stainless steel stand] List \$13 \$11.95

EduCALC

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

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

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Stock #811 [Bocote desk-wedge] \$29.95
Stock #858 [Bocote desk-wedge] \$21.95

Oak stand—dense, thick and sturdy—complements your desk and blends with other accessories.

Stock #629 [Oak stand] \$14.95
Stock #642 [Oak stand] \$14.95
Stock #769 [Oak stand] \$19.95

CHROME NAMEPLATE for your desk stand

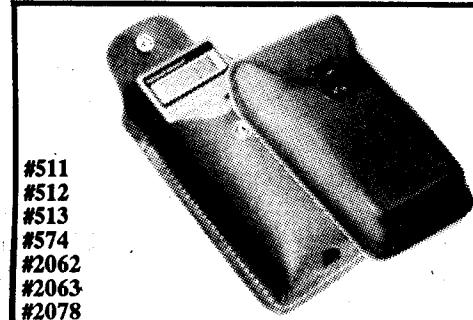
EduCALC

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 above for up to 16 engraved characters (including punctuation and spaces)—just tear out this page and send it with your order.

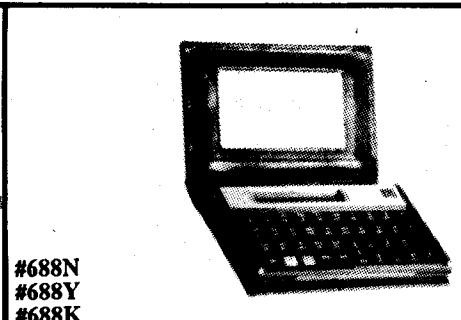
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Stock #AWNP [Custom Nameplate: Chrome] \$7.95

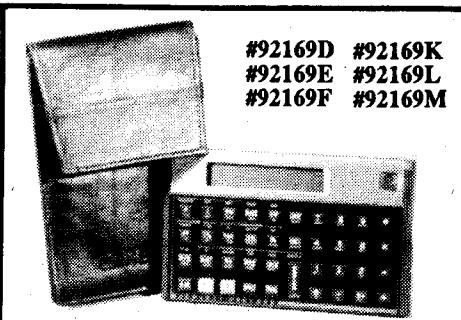
Calculator Stands, Cases & Batteries



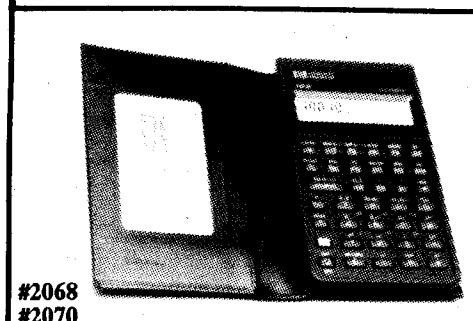
#511
#512
#513
#574
#2062
#2063
#2078



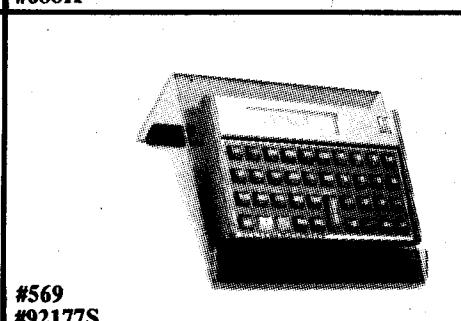
#688N
#688Y
#688K



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



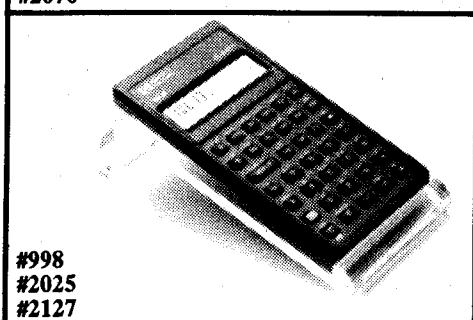
#2068
#2070



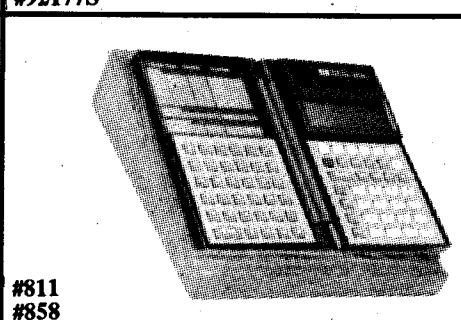
#569
#92177S



#549



#998
#2025
#2127



#811
#858



#629
#642
#769

Find out what fits your instrument in chart on facing 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, except 2078 is brown.

These cases are handcrafted and may require a long delivery time.

Stock #511 [Case: HP-41 without Crd Rdr]	List \$39.....	\$34.95
Stock #512 [Case: HP-41 with Crd Rdr]	List \$50.....	\$42.95
Stock #513 [Hard Leather Case]	List \$37.....	\$34.95
Stock #574 [Hard Leather Case]	List \$62.....	\$49.95
Stock #2062 [Hard Leather Case]	List \$35.....	\$34.95
Stock #2063 [Hard Leather Case]	List \$56.....	\$48.95
Stock #2078 [Hard Leather Case]	List \$20.....	\$16.95

Soft Leather Wallets

Chary

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

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

Stock #688N [Leather wallet, Brown]	List \$25	\$23.95
Stock #688Y [Leather wallet, Burgundy]	List \$25	\$23.95
Stock #688K [Leather wallet, Black]	List \$25	\$23.95

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.

Stock #2068 [Wallet/Stand: Black]	List \$30.....	\$27.95
Stock #2070 [Wallet/Stand: Burgundy]	List \$30	\$27.95

Soft Vinyl Cases

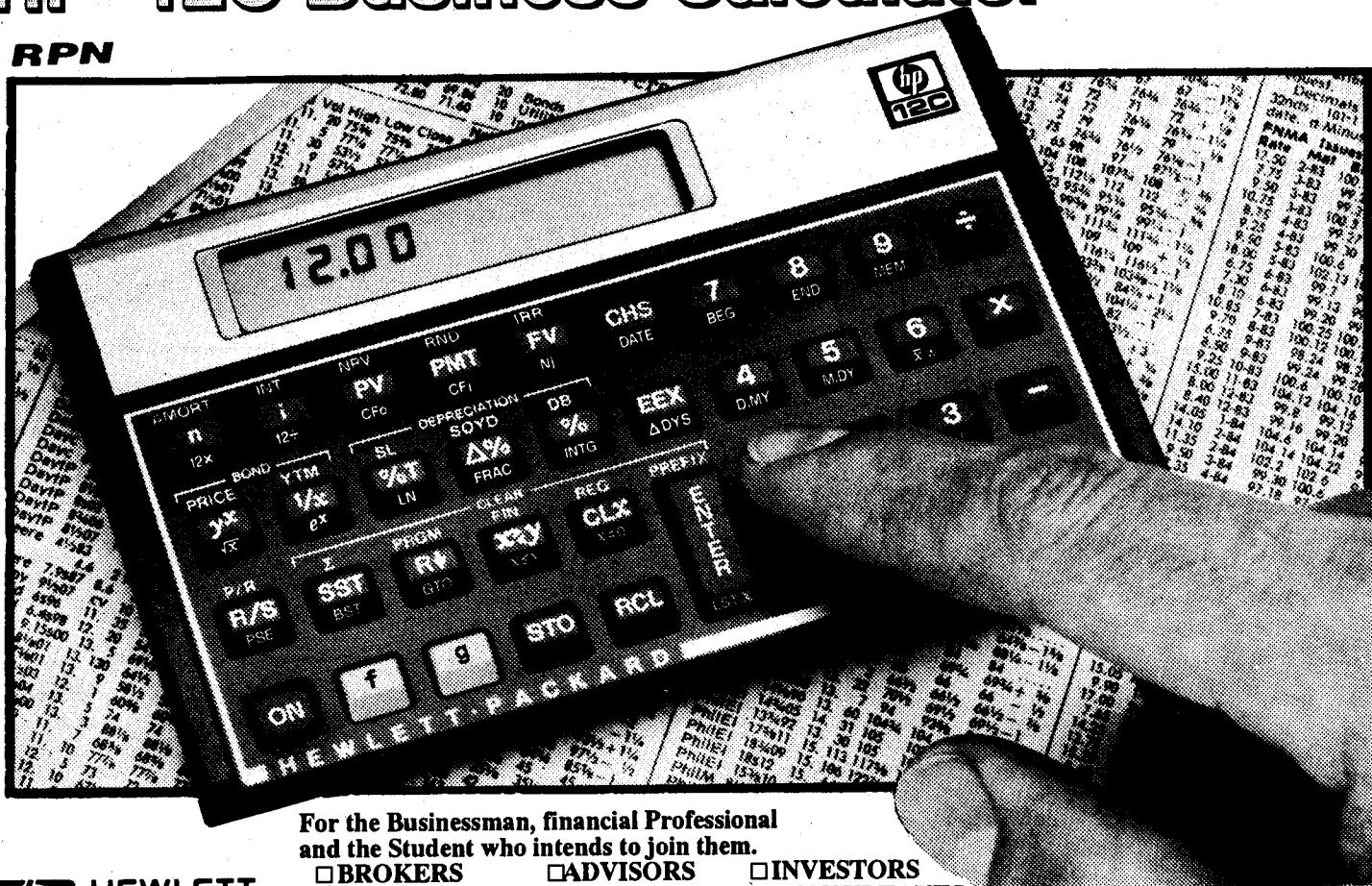
HEWLETT
PACKARD

Just like the one that came with your instrument.

Stock #82111A [Vinyl case: Black]	\$9.95
Stock #82174A [Vinyl case: Black]	\$4.50
Stock #82463A [Vinyl case: Black]	\$9.95
Stock #82243A [Vinyl case: Black]	\$4.50

HP-12C Business Calculator

RPN



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

<input type="checkbox"/> BROKERS	<input type="checkbox"/> ADVISORS	<input type="checkbox"/> INVESTORS
<input type="checkbox"/> LESSORS	<input type="checkbox"/> BANKERS	<input type="checkbox"/> CONSULTANTS



HEWLETT
PACKARD

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 own 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 five top-row keys in just a matter of minutes!

Stock #HP-12C, List \$95 (Battery & case included).....\$74.95

Calculator batteries, stands & cases—see pp 13-15

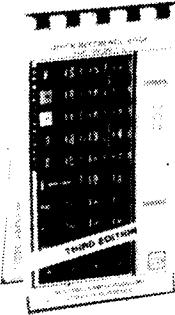
Quick Reference Guide for the HP-12C

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 #12-243, 12C Quick Ref, 36p softbound.....\$4.50

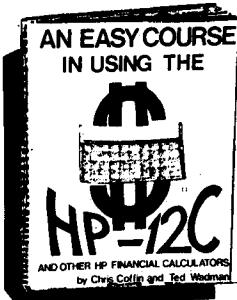


An Easy Course in using the HP-12C

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 #12-260, Easy Course 12C, 255p wirebound.....\$21.95



HP-12C Business Calculator

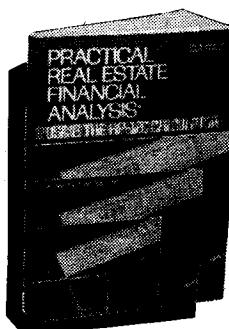
Practical Real Estate Financial Analysis: Using the HP-12C Calculator by Greynolds/Aronofsky

- Executives
- Bankers
- Appraisers
- Accountants
- Consultants
- 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.

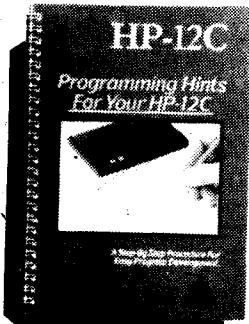
Programs are included to extend the power of your HP-12C. Plenty of worked-out examples, plus sufficient drills and exercises to study for certification exams.

Stock #12-461, RE Financial Anal, 233p softbnd, List \$24 \$21.95



Programming Hints for your HP-12C

Chary Software



A little simple, direct advice that can help you a lot. Use it as you study your *Owner's Handbook*—you'll quickly be able to get your HP-12C to do what you want it to. Success is sweet! Includes overlay.

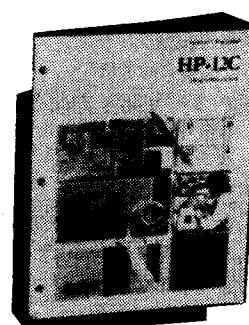
Stock #12-328, Prog Hints 12C, 40p wirebound \$9.95

The HP-12C Training Guide

hp HEWLETT PACKARD

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

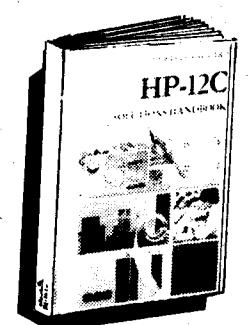


HP-12C Solutions Handbook

hp HEWLETT PACKARD

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 12-477, HP-12C Solutions, 152p softbound \$14.95



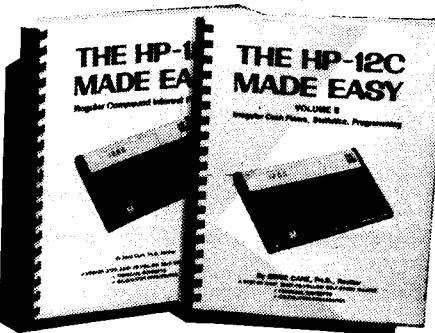
The HP-12C Made Easy by Edric Cane

hp HEWLETT PACKARD

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



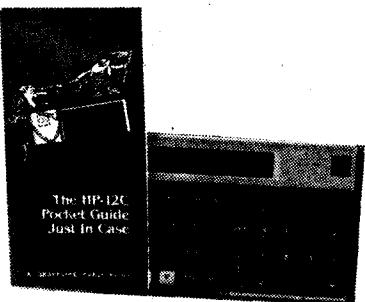
VOLUME II: Complete your kit of 12C skills—learn how to handle IRREGULAR CASH FLOWS, STATISTICS and PROGRAMMING.

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

The HP-12C Pocket Guide: Just in Case by Coffin/Wadman



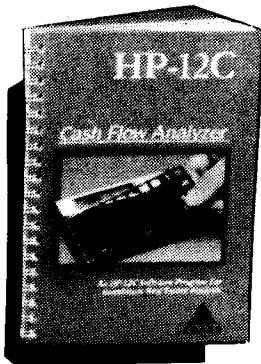
Jiffy HELP that fits in the pouch with your HP-12C—yet it is complete enough, with Descriptions, Instructions and Examples.

It covers every key, every 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 #12-649, 12C Pocket Guide, 50p softbound \$4.95

Cash Flow Analyzer

Chary Software



Brokers: close more deals! Investors: know if a deal 'pencils out'! Sellers: be sure of your highest price.

Upgrade your HP-12C to a Real-Estate Investment Analysis Computer—in just seconds you can have 14 investment parameters to review, and you can change numbers for recalculations, on-the-spot (expenses, seller's interest rate, down payment, gross multiplier, price or income).

Includes program, handbook and color-coded keyboard overlay.

Stock #12-308 (Cash Flow Analyzer) \$19.95

*Check out anything you want without risking a penny.
At EduCALC you get a two week return privilege.*

HP-12C Business Calculator

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 and comprehensive—and essential for the investment practitioner that loves the convenience and power of the HP-12C."

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

The Time Value of Money

Dave Smith

Sit back and relax as you learn—a popular, powerful seminar, ready to listen to, 8 tapes plus an 82 page manual. Thousands of professionals have taken Dave's course at \$195.00—this costs less, and YOU KEEP IT! No prior calculator skills are assumed here—each subject is taught thoroughly, in depth, while keeping it light and easy to understand.

Dave Smith is a full-time broker with an engineering education. He'll show you how to do cash-flow analysis, analyze and compare investments and much more. You'll get the comfortable power with your HP-12C that you want for a competitive edge!

Stock #12-537 (Time Value of Money, Tapes) List \$195\$139.95

Pop-Up PC-12C



Popular Programs

A Financial Calculator on your PC—just type Alt-C!

Looks just like your HP-12C on your screen, right down to the blue and gold display of functions accessed by the prefix keys. Complete emulation of 12C functions. Has tape display you can make notes on, save to disk or print, plus the ability to feed your results to your spreadsheet or other program. On-screen help; requires PC or MS DOS, 64K RAM.

Stock #S-776 (PC-12C, 5 1/4") List \$70\$64.95

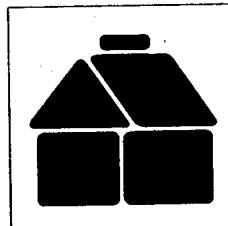
HP-12C Power User Video

SMART Z

Dale Hillard, former college professor turned real estate broker, is your trainer. It's like attending one of his workshops at your convenience. You'll understand your machine after Dale's explanations—starting with the keyboard through depreciation, IRR, net present value . . . and finishing almost two hours later with programming.

Stock #12-2182 (Power User Video, VHS) List \$50\$44.95

HP-12C Leasing Applications Handbook



This is not a textbook. Hewlett-Packard shows you techniques which solve real problems that the leasing professional faces in today's marketplace. These practical applications include: analysis, structuring pretax/after-tax lease payments, lease vs. buy analysis.

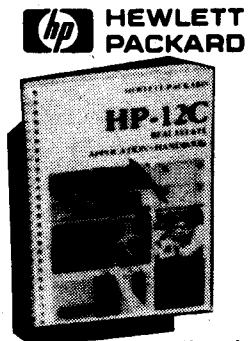
Stock #90021, Leasing Applications, 117p softbound\$14.95

HP-12C Real Estate Applications Handbook

Here's help from Hewlett-Packard for brokers, investors, appraisers, analysts and others in making real estate decisions. Keystroke programs with formulas, explanations and worked out examples make it easy for you to get on-the-spot figures fast without a lot of table look-ups. In addition to your calculator, you'll need the HP-12C Solutions Handbook to use this book.

Financing analysis, appraisal applications, investment analysis, differential cash flow analysis, financial management, rate of return, miscellaneous feasibility measures, calculating the number of payments, A.C.R.S. tables.

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HPX—Handheld Programming Exchange is a volunteer, member-supported club of HP handheld users focusing on the selection, application and use of today's true personal computers. Membership includes the 'HPX Exchange' publication, P.O. Box 4160, Des Plaines, IL 60016. Tel: (312)884-0099 (evenings and weekends).

TI PPC—TI Programmable Calculator Club includes coverage of the TI-74, TI-95 and Casio fx-7000G well as the TI-66. Membership includes 'TI PPC Notes' newsletter subscription, P.O. Box 1421, Largo, FL 34294.

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, Geegs Lodge, Hempton Road, Deddington, Oxfordshire, OX5 4QG, Great Britain.

HP-17B Business Consultant

- 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 , x^2 , $1/x$
- Time and Dates
 - Appointments and alarms
 - Clock, calendar



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- 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
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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.

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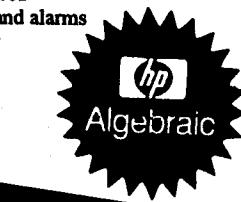
You can analyze your sales by fitting them to four different curve models and use the HP-17B's forecasting application to predict future sales. In addition, this multipurpose calculator performs time calculations and reminds you of pending appointments.

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.

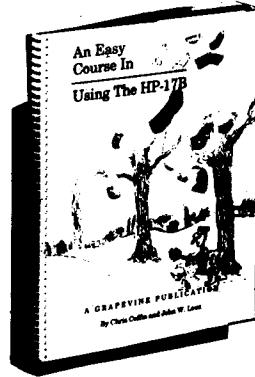
The HP-17B—it gets the job done right!

Stock #HP-17B [Business Calculator] List \$110 \$84.95

Calculator batteries, stands & cases—see pp 13-15



An Easy Course in Using the HP-17B from Grapevine



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

The HP-17B Pocket Guide: Just in Case from Grapevine

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 #17-2022, HP-17B Pocket Guide, 64p sftbnd \$4.95

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

Stock #HP-544, Real Estate, Banking, Leasing 90019 \$9.95

Stock #HP-545, Business, Finance, Accounting 90020 \$9.95

Stock #HP-546, Marketing, Sales 90021 \$9.95

Stock #HP-547, Personal Invest/Tax \$9.95

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

Save **29**

Get It Down on Paper

The Business Consultant II has a silent partner that prints your calculations and results. It's a thermal strip printer that operates on an AC adapter or four AA alkaline batteries (included) for go-anywhere portability.

An Invisible Connection

Printer connection cords have been replaced by an invisible infrared beam from the Business Consultant II. 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 the Business Consultant II at it and push [PRINTER]. 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 #82240 [InfraRed Printer] List \$135 \$105.95

Stock #82241 [AC Adapter for IR Printer] \$14.95

Stock #82175 [Printer Paper, black, 6 rolls] \$9.95

Stock #82175B [Printer Paper, black, 2 rolls] \$3.95

Stock #AA [Batteries, Printer uses 4] each \$.85

Stock #92169G [Cover, black] \$22.95

Stock #92169H [Cover, brown] \$22.95

Stock #92169J [Cover, burgundy] \$22.95



The HP-19B Business Consultant II

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



HEWLETT

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Data-Saving and Sorting Power

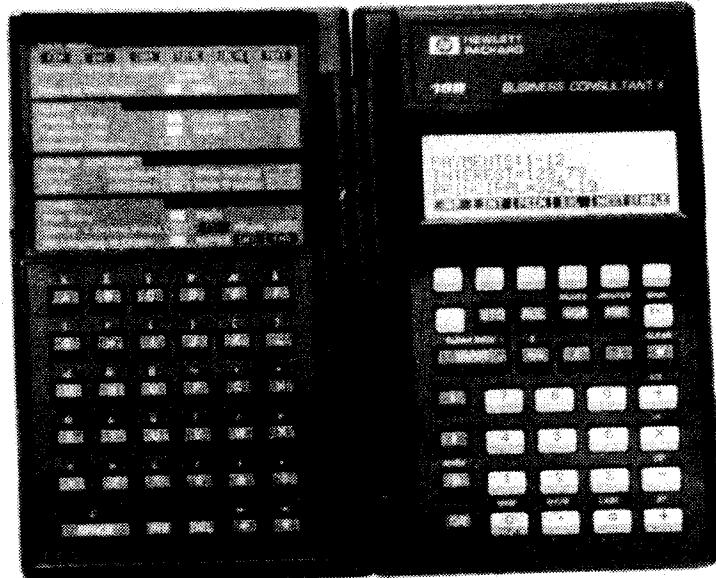


Now—the first business calculator with GRAPHICS: scatter # plots, histograms, curve fits, etc., and you can print them! Also has SCIENTIFIC Functions: trig and hyperbolic. More than 450 functions in all.

Problem-Oriented Power

Time-Managing Power

Menu-Driven Power



Solve your special problems WITHOUT PROGRAMMING!

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

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

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

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

They make these functions push-button close:

- Interest rates
- Statistics
- Time and appointments
- Internal rate of return
- Payment schedules
- Interest rate conversions
- 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.

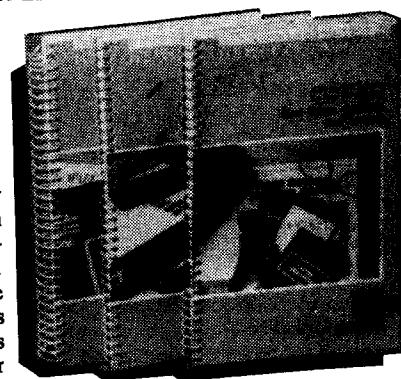
Its new power includes Interest Rate Conversions, Markup as % of Cost and Price, Net Future Value (NCF), Net Uniform Series (NUS), Clock Functions, Appointments and Alarms, Logarithmic and Exponential and Power Curve Fitting, Currency Conversions.

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.

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 #HP-19B [Business Consultant II] List \$175 \$134.95

Calculator batteries, stands & cases—see pp 13-15

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

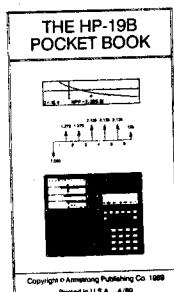


Let experts help you set up your calculations so you can work with them most easily. These professional references include practical routines and tips for getting the most from the Built-in Menus as well as setting up Personal Menus for your specific profession. Order the ones that fit your work.

- Stock #HP-544, Real Estate, Banking, Leasing 90019 \$9.95
- Stock #HP-545, Business, Finance, Accounting 90020 \$9.95
- Stock #HP-546, Marketing, Sales 90021 \$9.95
- Stock #HP-547, Personal Invest, Tax Plan 90022 \$9.95
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HP-19B Pocket Book

Brand New



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 #19-2142, 19B Pocket Book, 60p softbound \$6.95

PC Software & Bookware

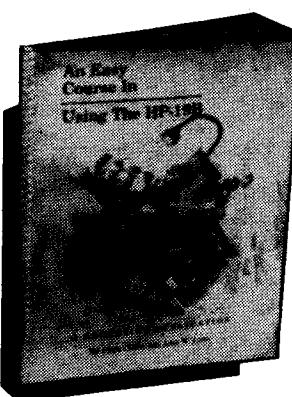
An Easy Course in Using the HP-19B Business Consultant from Grapevine

How to work with Menus, Lists and Arithmetic, and how to develop a personal list of equations—all on the new HP Business Consultant II—all in the friendly style that Grapevine is known for.

You'll be amused, and even have some fun, as you become expert with the built-in financial equations, learn the 'hows' and the 'whys' of loans and leases, mortgages, investments, NPV, NFV, IRR, and much more, with ease!

You'll also get the usual clear diagrams, explicit examples and witty illustrations—and you'll have a learning adventure! List \$23.

Stock #19-541, Easy Course 19B \$21.95



The HP-19B Pocket Guide: Just in Case from Grapevine



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 #19-2007, HP-19B Pocket Guide, 64p sftbnd \$4.95

Alpha Keyboard Overlay for the HP-18C Business Consultant

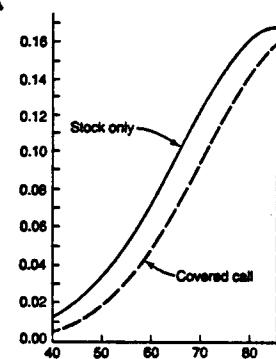
Sale while they last
\$3.75
\$4.50

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

Quantitative Methods for Financial Analysis *New*

by Brown/Kritzman



The serious investment professional needs a sound understanding of these methods and concepts—as well as the ability to apply these increasingly sophisticated mathematical and statistical tools and techniques.

Starting with an introduction to quantitative methods, this unique book covers techniques in equity, fixed-income real estate and derivative security analysis, asset allocation and performance measurement.

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"... thank you for your kind letter. It's not often that companies write to tell you their supplies of stock are delayed!! One more time, thank you for being so reliable! I must say you're the best in the world!!" Bertil Wklund, Arleux

Modelling Financial Time Series by Stephen Taylor

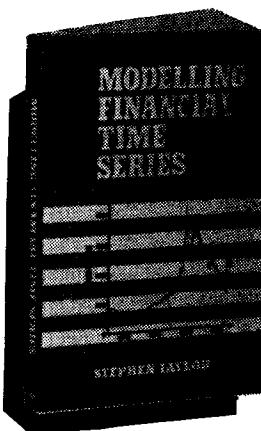
Can you tell future prices from the past?

Anyone interested in financial markets soon discovers that changes in prices are frequently substantial and always difficult to forecast. Here is the first major statistical text in 15 years to focus on financial time series.

Chapters 1 and 2 introduce financial markets, previous research and definitions. Chapters 3 to 7 cover construction of accurate models for daily returns.

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A practical look at the time-value-of-money concept—uses real-world examples to show you how to

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Stock #H-2028, Time and Money, 146p hardbound \$27.50

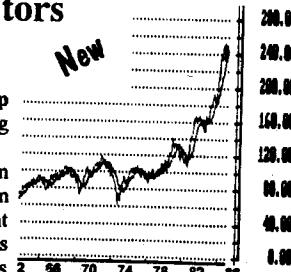
The Encyclopedia of Technical Market Indicators

by Colby/Meyers

Profit whether the stock market goes up or down—learn and use the TRUE forecasting value of over 110 indicators.

This complete, comprehensive manual is an excellent introduction to indicators and then an ongoing reference source for the intelligent investor. Successful buy and sell decision rules are fully disclosed, along with clear examples and complete performance details for decades.

Stock #H-2027, Ency Tech Mkt Indicators, 581p hrdbnd \$47.50



Yield Curve Analysis The Fundamentals of Risk and Return by Livingston Douglas

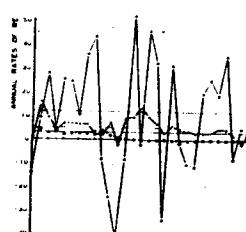
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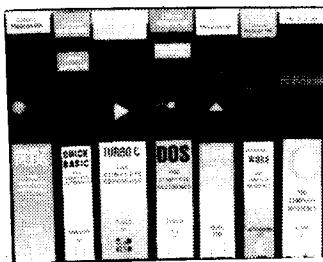
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So complete that it's the only reference you'll ever need—clarifies the manual's start-up steps while you're still a beginner, teaches you steps as you progress, and becomes steps as you progress, and becomes the lifetime reference that you really 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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Word processing features include block operations, find, search/replace, word-wrap, soft hyphens, proportional spacing, even/odd headers, right/left justification, page numbering, footnotes, windows, non-printing comments, more.

PC/Compatible with 256K CGA/EGA/Hercules/DGDA graphics card. Epson MX-80/FX-80/LQ-800/LQ-1000/LQ-1500, NEC PS/P6/P7, Toshiba P321/P351/P1340/P1351, Tandy DMP 2100/2100P, HP LaserJets.
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PC Software & Bookware

The Essentials of EXP New

The fastest way to learn this scientific word processor
by Nancy O'Connor

If you're beginning with EXP, you'll learn here how to do all the basics of technical word processing—as quickly as possible.

The author, a technical typist at Cal-Tech, shows you how with many examples of mathematical expressions, each with step-by-step instructions for creating it in EXP.

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What you see on your graphics screen is what you get in print—including Text with print options like bold, italic, underlined, enlarged; Equations, Symbols, and Special fonts. Program comes with lots of Math Symbols, but you can also create your own and they will then appear on both screen and paper.

TECH/WORD automatically formats mathematical expressions for you. This means that fractions, roots, subscripts, superscripts, matrices, integrals, and summations adjust their positions magically as you edit them.

Requires PC/XT/AT, DOS 2.0 or later, two 5 1/4" disc drives or hard disc and compatible printer (most popular dot matrix and laser printers are supported). Alternate fonts will appear on the screen with Hercules, IBM Color or IBM EGA Display Adapter (but not with monochrome).

Includes a complete tutorial, so you're up and running in 30 minutes!
Stock #S-378 (TECH/WORD, 5 1/4") List \$75..... \$69.95

WordPerfect Desktop Companion

Stock #C-509, WordPerfect Desktop, 663p softbound..... \$26.95

1-2-3 for Scientists and Engineers

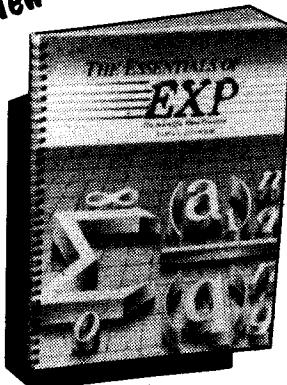
by William Orvis

Did you realize that ordinary 1-2-3 offers mathematical operators and functions comparable to those in FORTRAN or BASIC? 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.

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Goldstein Software

$$\int \frac{1}{x^2} dx = -\frac{1}{x}$$

$$\int \frac{1}{\sqrt{1-x^2}} dx = \cos^{-1}(x) \Big|_{x=0}^{x=1}$$

$$\int_{x=0}^{x=1} \frac{-1}{\sqrt{1-x^2}} dx = \cos^{-1}(1) - \cos^{-1}(0) = \frac{\pi}{2} - \frac{\pi}{2} = 0$$

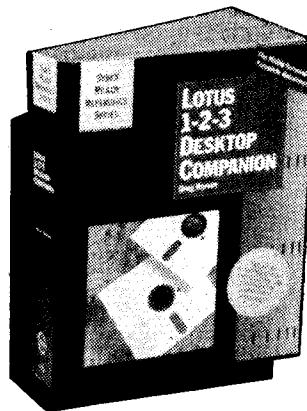
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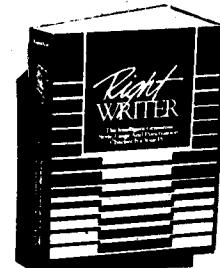
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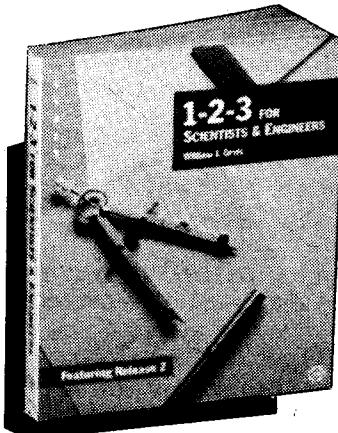
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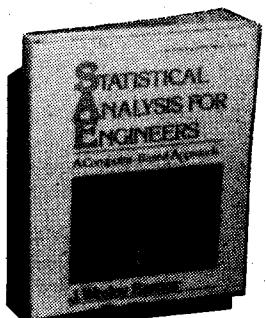
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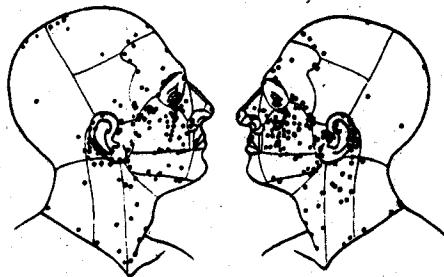


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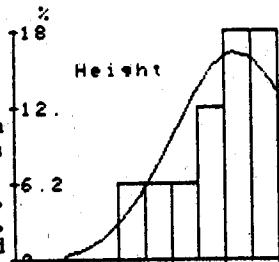
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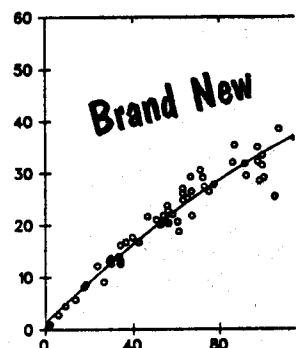
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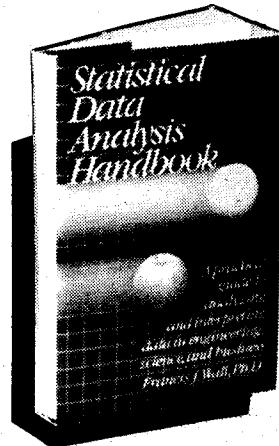
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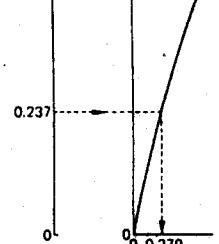
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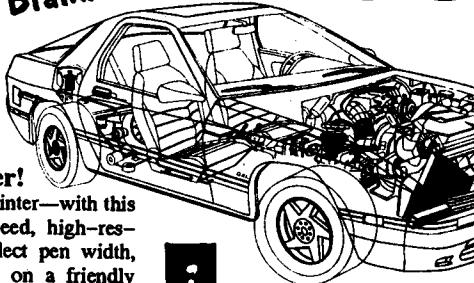
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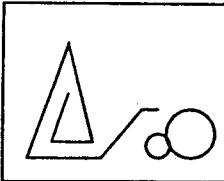
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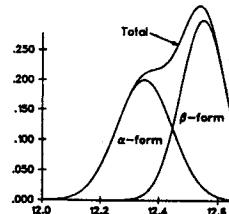
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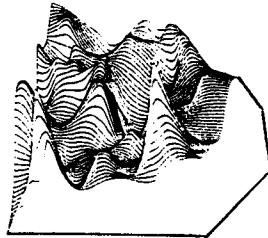
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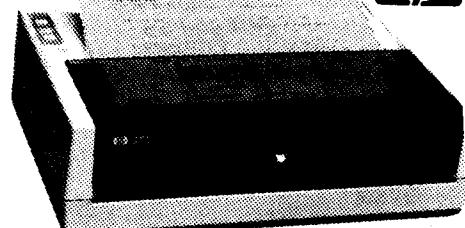
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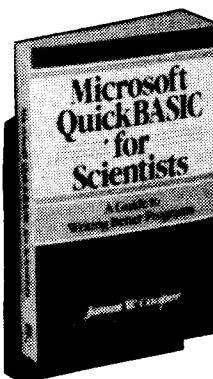
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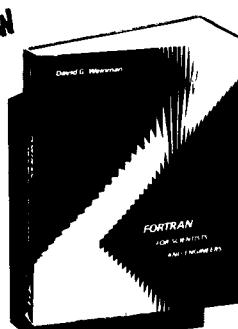
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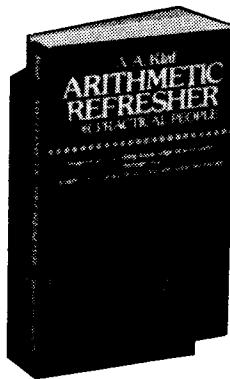
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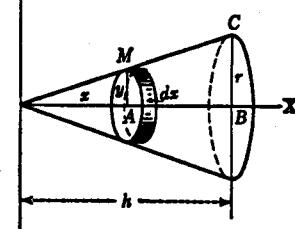
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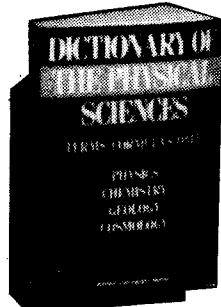
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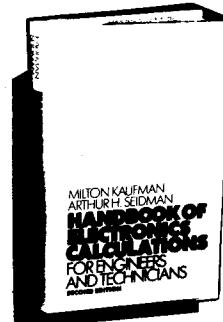
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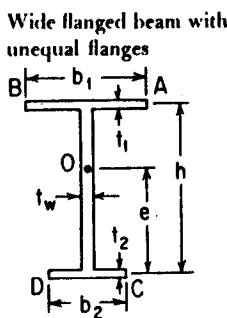
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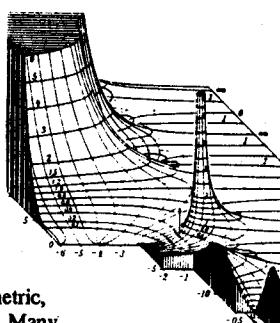


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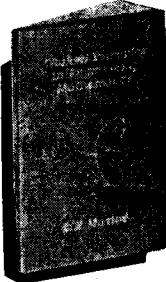
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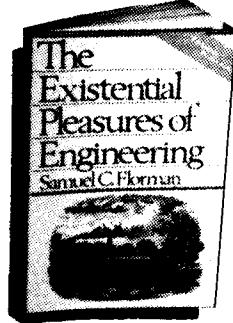
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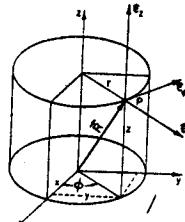
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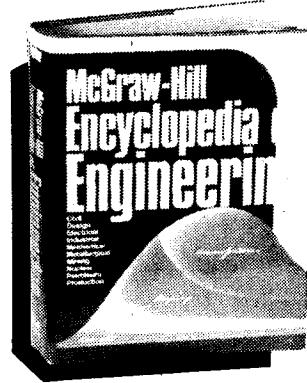


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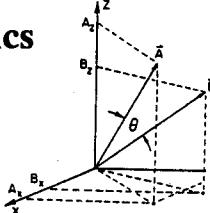
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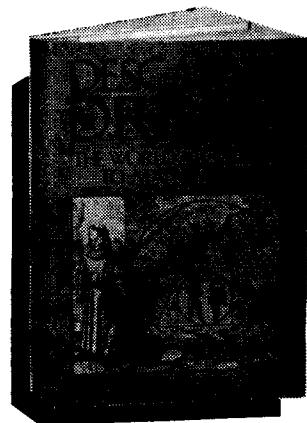
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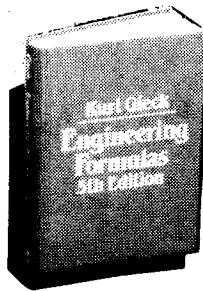
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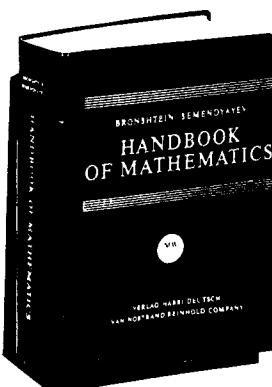
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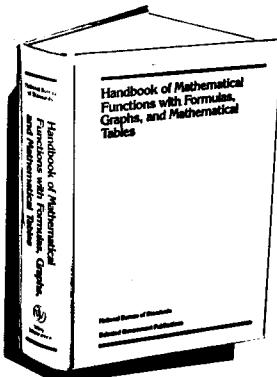
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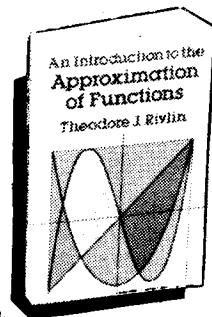
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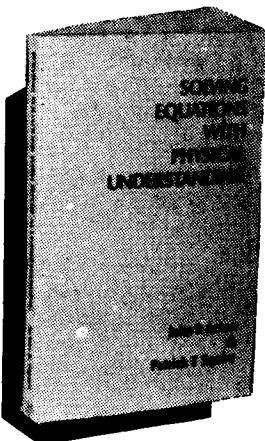
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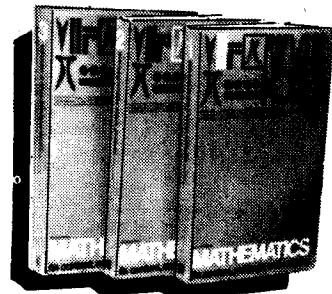
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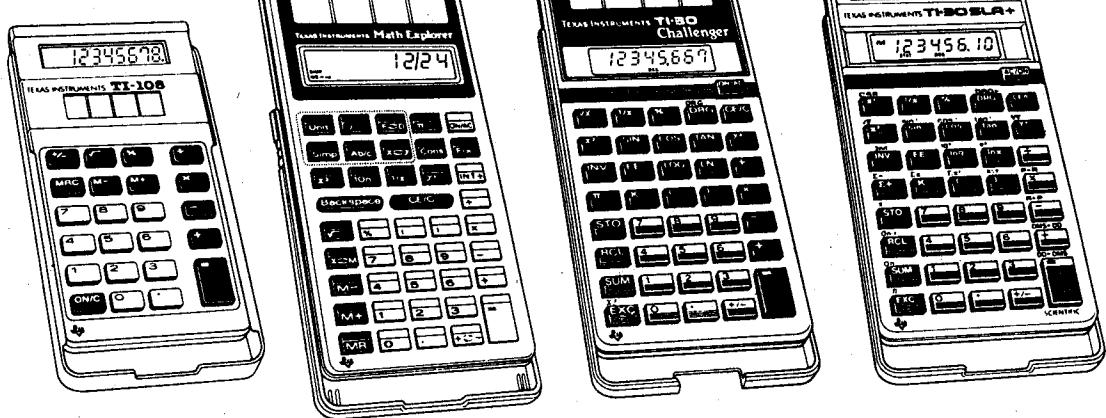
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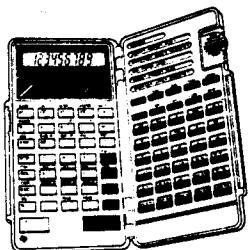
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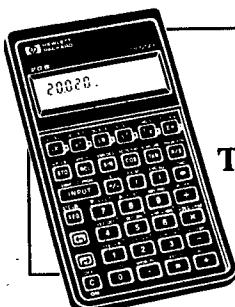
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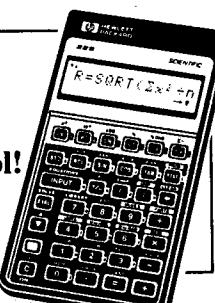
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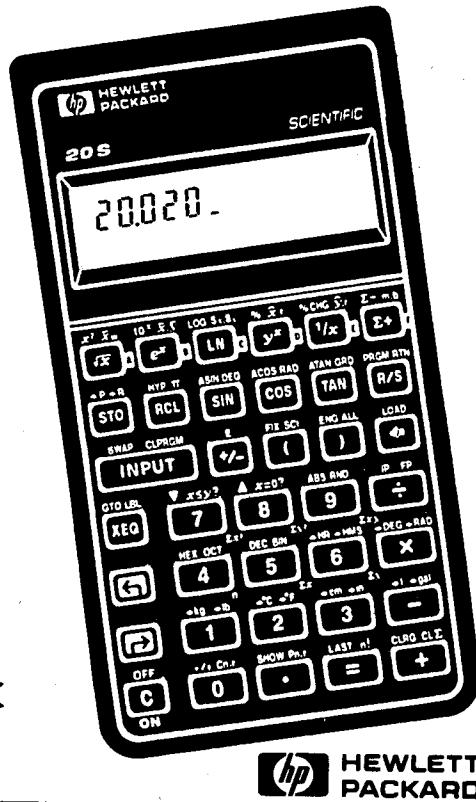
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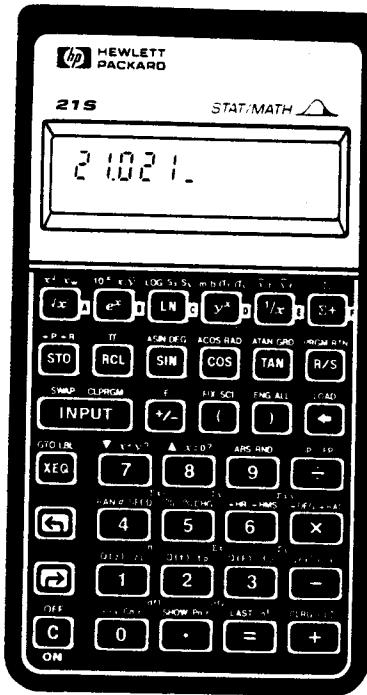
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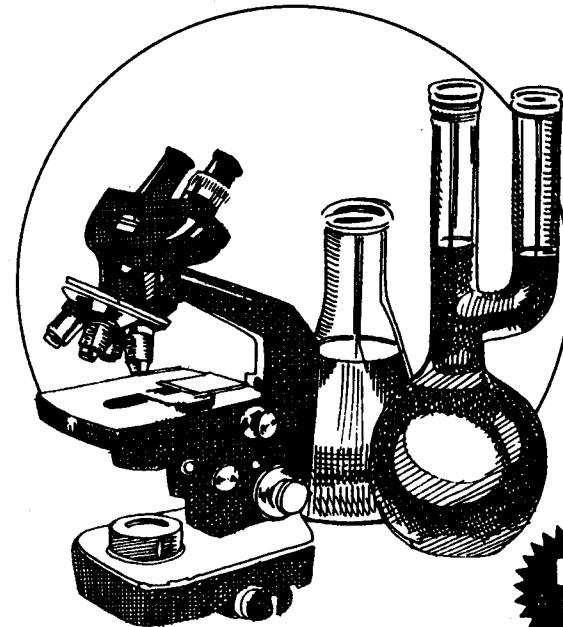
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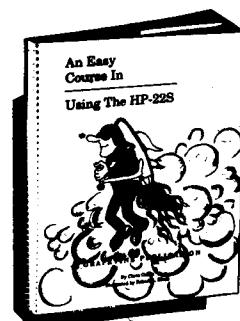
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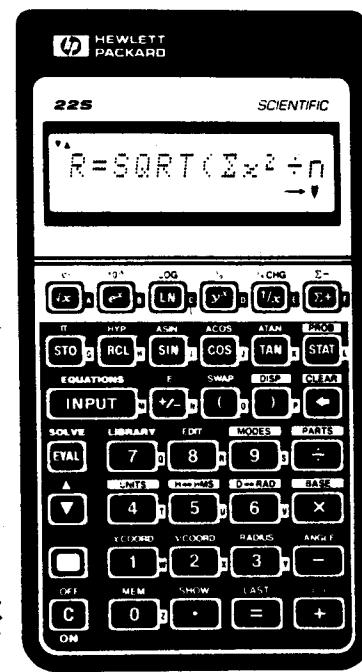


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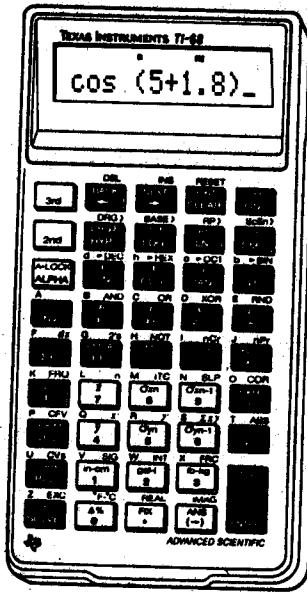
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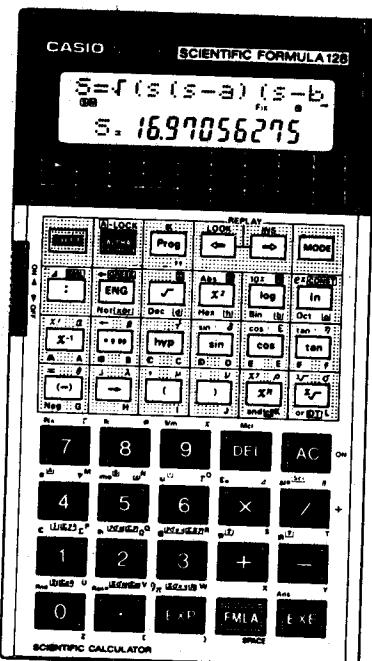
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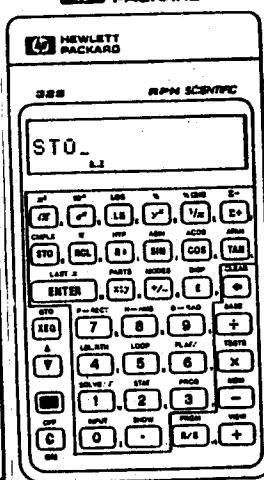
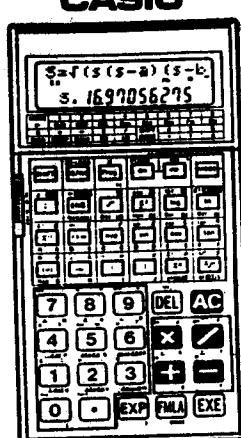
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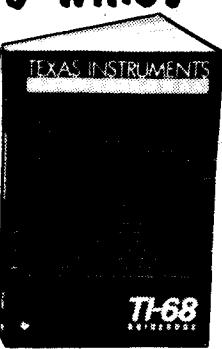
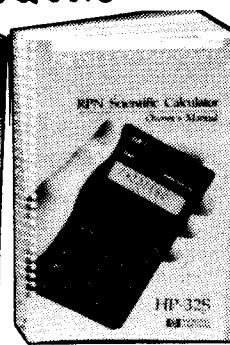
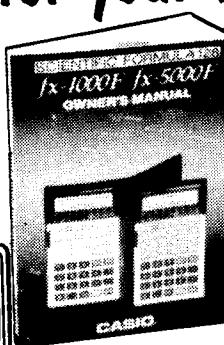
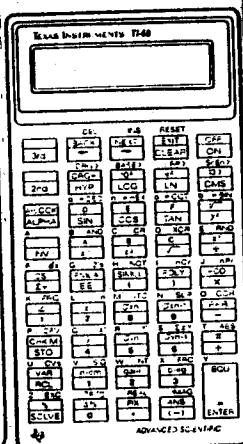
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3rd 2nd 1st INV HYP DRG HEX OCT BIN REPO SCEN IN 12
NEXT →
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Comparison Chart for Common Features

fx-5000F

Manual—

number of pages
number of index entries
number of examples

232
none
294, mostly simple

Display—

screen dimensions
type of characters
height of characters
number of annunciators
viewing angle

$2.15 \times .56 = 1.2$ sq. in.
5 x 6 dot matrix & 7 segment
.11 in. & .16
21 on 1 line
thumbwheel adjust

Keyboard—

functions per key, usual
feedback of keystroke

5 (with formulas)
soft, wobbly, slight click

Computing Power—

RAM memory, bytes
data registers
number of digits
exponent range
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308
741
111, some quite complex

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.20 in.
25 on 2 lines
keyboard adjust

3 (with menus & programs)
sharp click

TI-68

159
309
146, mostly simple

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.24 in.
22 on 2 lines
tilted, no adjustment

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55 (each uses 8 bytes)
10 + 3 guard digits, or 13
±99
2.30 sec
.47 sec
 $5 \frac{7}{8} \times 2 \frac{7}{8} \times 5 \frac{5}{8}$
(806)741-2663
\$65

To sum it up, as basic scientific calculators these machines' similarities far outweigh their differences. Our chart coaxes out these differences for you, but most buyers will find any one of these 3 units a pleasure to use. The overall distinction you will see in this chart is that the fx-5000F is smaller—this means smaller display and crammed keyboard, and it means convenient pocketability—though if your eyesight is poor you might pass up this colorful little jewel.

We have not reported the lists of functions—arithmetic, trigonometric, exponential/logarithmic and two-variable statistical—each machine has them and calculates them accurately. Or warranties—all are 1 year. Each unit has a satisfyingly long battery life—1000 hour, more or less. Each has a case—the TI case gives rigid protection, the Casio is stiff, and the HP is soft and light-weight—but these differences will probably not affect your buying decision.

more →

Scientific Calculators

HP-32S

Uncommon Features

Our 3 machines do differ, though, in their advanced features. Many of these differences may not concern you in your work, but some of these features may well be essential to you, so your choice of instrument will probably be made on the 7 differences listed below.

Complex Number Functions—the HP-32S and TI-68 have them, but the fx-5000F does not.

Formula Solving—the fx-5000F has 128 built-in formulas for math, statistics, science and engineering, and you can insert 12 more formulas of your own (each "formula" expresses one variable in terms of others). These are very handy if you use them.

You can insert perhaps a dozen of your own formulas into the HP-32S or the TI-68 as well. The TI-68 will also find the real or complex roots of quadratic, cubic and quartic polynomials. The HP-32S will quickly find the real roots, and may be programmed to solve quadratics (and therefore cubics; quartics would be difficult).

But the HP-32S alone has a SOLVE feature that does more. You can see the difference in a 5-variable example (the Time Value of Money equation)

$$P\bar{I}^{-1}(1-[1+I]^N) + F(1+I)^{-N} + B = 0$$

You can manipulate this equation easily to find formulas for B, F, N and P so you could calculate values of these variables in terms of the others on any one of these 3 machines. But you cannot solve for I algebraically in this equation, so the fx-5000F and the TI-68 have no built-in feature that will find I for you. The HP-32S does—it's SOLVE feature will find the value of any variable in the formula, given the others.

Integrals—the HP-32S and the TI-68 can evaluate definite integrals, but the fx-5000F cannot.

Logic—the fx-5000F and the TI-68 have algebraic operating systems and the HP-32S uses RPN. Each of these systems is used by many millions of satisfied and successful consumers. Each manual explains its machine's usage clearly, with abundant examples, so you should have no trouble with any of them on this score.

Matrices & Simultaneous Equations—the fx-5000F solves 3 equations in 3 unknowns; the TI-68 will find 5 unknowns. The HP-32S solves for 3 unknowns via programs given in the manual, and those programs will also invert a 3×3 matrix or find its determinant.

Programming—of these 3 calculators, only the HP-32S is programmable with loops and branching. Its manual teaches you how to program and offers a variety of math and statistics programs, plus time value of money, unit conversions and a prime number generator.

Statistics—while all units do 2-variable statistics, they offer only straight-line fits. It is simple to modify your data to produce exponential, logarithmic or power-curve fits. However, if you calculate a lot of these curve fits, you might want to use the program in the HP-32S manual which does them automatically.

The fx-5000F has built-in formulas which will quickly calculate areas under the normal curve. The HP-32S and TI-68 will integrate to find areas under any such distribution curve. Only the HP-32S can SOLVE to find values of the inverse-normal distribution (and other inverse distributions).

Minor Features

In addition to those 128 built-in formulas, the fx-5000F has 13 scientific constants preprogrammed, with easy-to-remember labels.

The TI-68 has unit-conversion formulas built in—Metric to & from English, for length, weight, volume and temperature.

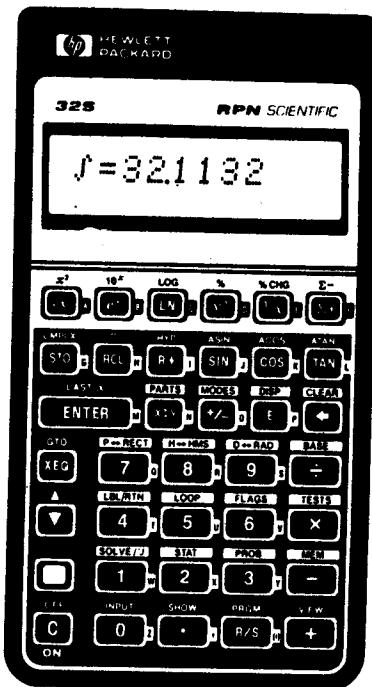
The HP-32S manual is a delight to work with—it's spiral binding lies open on your desk, it has a second color printed throughout to highlight explanations, and its paper is thick and white.

The HP-32S has another goodie—a self-test feature, so it can tell you it is working properly.

Conclusions

There you have it—there is no one winner. Your choice will depend on your needs for advanced functions. We hope this comparison helps you get the one best for you. Happy calculating!

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when you want
a little more



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- Polar/rectangular; decimal hours/hours-min-sec
- Root finder, SOLVE for any variable

RPN Data Entry—quick and sure

HP EQUATION SOLVER—solutions without programming

- Menus and Softkeys—alpha variables and messages**
- Numeric Integration**
- Complex Number Functions**
- Random Numbers**
- Modern vertical design with the Sleek Efficiency of a New German Car**

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

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

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

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Calculator batteries, stands & cases—see pp 13-15

Tips and Programs for the HP-32S

from Synthetix

Stock #32-2014, Tips and Programs, 95p \$9.95

Scientific Calculators

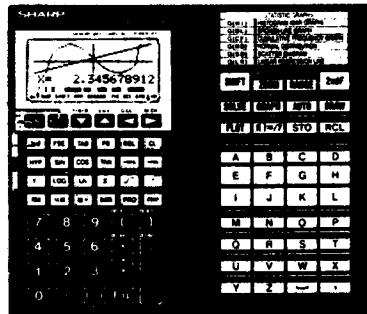
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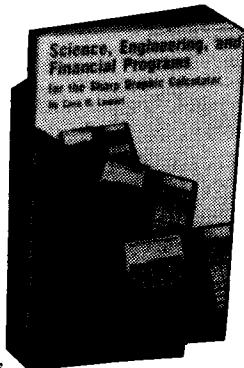
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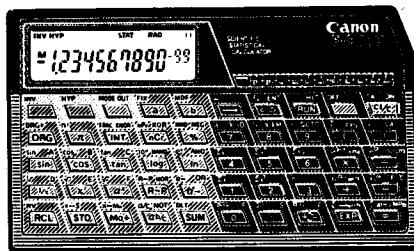
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Stock #CR2032 (Replacement Bat, req 3)\$1.95

Calculator batteries, stands & cases— see pp 13-15

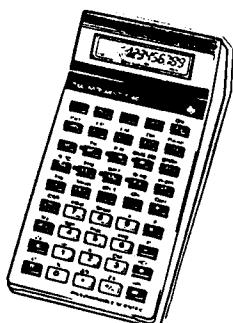
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Scientific Calculators

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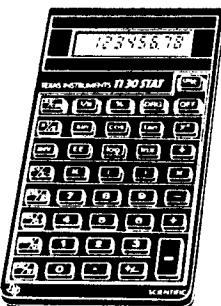
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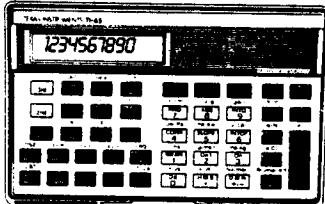
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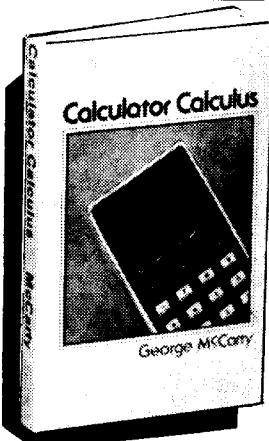
Calculator batteries, stands & cases—see pp. 13-15

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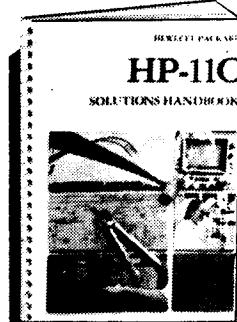
HP-11C Solutions Hand Book

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Helps you get the most from your calculator, with real-world problems (plus a few good games). The math programs include coordinate transformations, differential equations, complex operations, and more. Statistics programs, t and F distributions, ANOVA, and more.

EE programs include ladder networks and Smith Chart Conversions. Other chapters cover Mechanical Engineering, Chemistry, Economic Analysis, Surveying, and Games.

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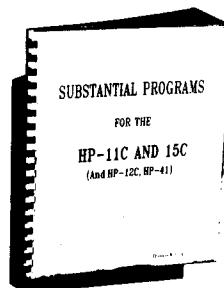
An Easy Course in Programming the HP-11C and HP-15C by Wadman/Coffin



Jargon-free! A relaxed, self-paced course from two former HP support engineers. Their conversational style makes learning-to-program enjoyable, not intimidating, so you'll get new skills quickly and have fun doing it.

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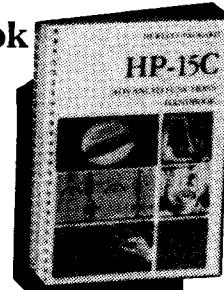
HP-15C Advanced Functions Handbook

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

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

The appendix thoughtfully surveys accuracy and error analysis.

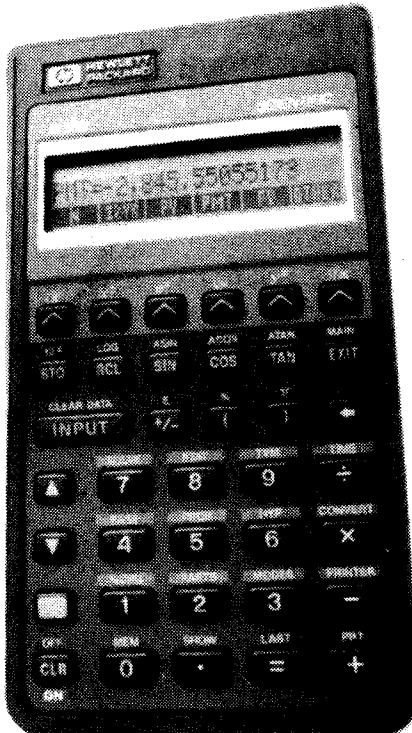
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Calculator batteries, stands & cases—see pp. 13-15

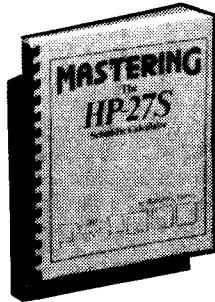
Mastering the HP-27S by Richard Harvey

Shows you how to get the job done—quickly and practically!

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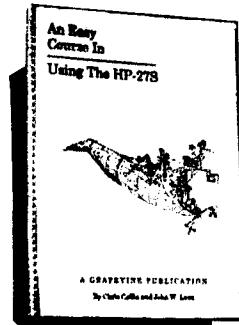
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An Easy Course in Using the HP-27S

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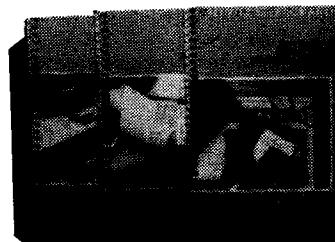
This Easy Course starts with the basics, with lessons on keyboard operation, arithmetic and how to move through a menu. Next it explains the built-in equation-solver (including all its 'smart' features). Then you'll put it all together in a series of commonly encountered, practical problems (with complete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

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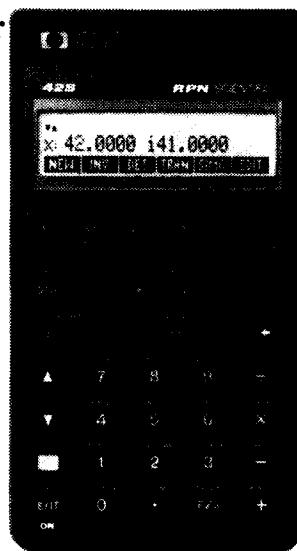
"I am overwhelmed, flabbergasted, excited . . . Thank you so much for the 15C. I will enjoy it and enjoy learning its capabilities. A quick thumb of 'Enter' says that it too will be fun to read and useful in my tutoring.

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SuperFast RPN Scientific**

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- **Solves, integrates, converts bases**—and it gives polar answers directly, without converting to rectangular mode first.
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Calculator batteries, stands & cases—see pp 13-15

InfraRed Printer, see page 19

Hook-up to your PC, see page 43.

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

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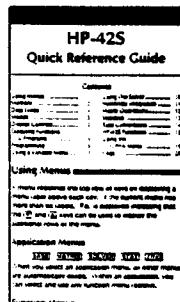
HP-42S Quick Reference Guide

by Dex Smith

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

- using menus
- statistics
- variables/registers
- base conversions
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An Easy Course in Using the HP-42S from Grapevine

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Advanced Circuit Analysis with the HP-42S

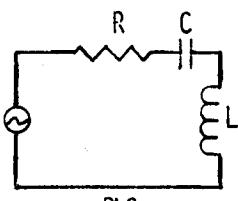
by Robert Boyd

New

Programs with listings, examples and discussions show you how to analyze circuits with the full power of your HP-42S.

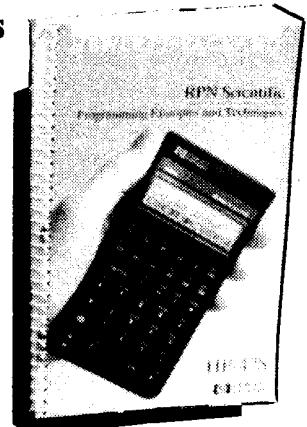
Boyd's unique new method handles higher order or non-linear problems and circuits with dependent sources, even when the coefficient matrixes are not symmetric. Some of the programs here will work on the HP-28S, the HP-41/Advantage Pac and HP-71/Math Pac, as well as other computers that handle complex matrices with double precision.

Stock #42-2146, 42S Circuit Analysis, 57p softbound\$9.95



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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!

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HP-28S Scientific Calculator

**The Unexpected HP-28S
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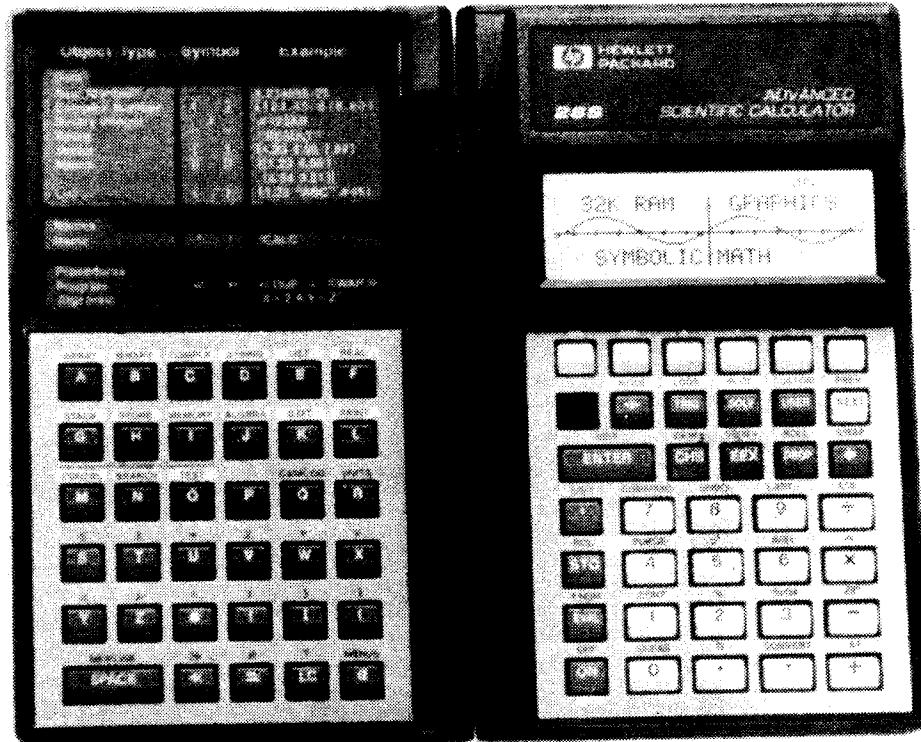
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Plus enhanced memory management,
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KEYBOARDS**

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If you're at all like us, this is what you've been holding your breath for (in the calculator direction, of course). Just a few years back, calculators were exciting. Maybe once a year there was a new model that could do startlingly more. Not recently, however.

Now here's our next tantalizing toy and technical tool. We haven't got room here to do it justice, there are so many interesting features and specs for it. We'll sketch it for you, though...

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.

The HP-28S lists for \$235. It will be the world's standard for years to come. You're sure to get one sooner or later. Why not now? We have them in stock, and we'll give you a discount savings of \$59 now.

Hewlett-Packard has been the choice of engineers and scientists for the past 15 years, ever since the introduction of the HP-35. HP is simply the best. Yours will last you for years to come.

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 #HP-28S [Sci/Professional Calculator] List \$235 \$175.95

Calculator batteries, stands & cases—see pp. 13-15

HP-28S Scientific Calculator

Customize your HP-28

2nd edition

by Wlodek Mier-Jedrzejowicz

*Revised to include
the HP-28S*

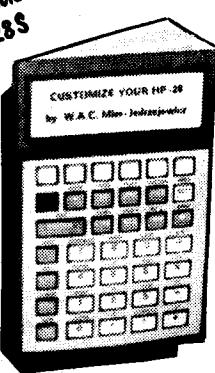
Make your 28 behave exactly the way you want it to. Here you get information and ideas that are not in the manuals.

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

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

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

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



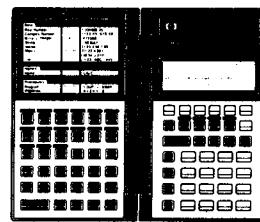
Advanced Circuit Analysis with the HP-28S

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 #28-2063S, 28 Circuit Analysis, 47p sftbnd \$9.95



HP-28S Software Power Tools Electrical Circuits

by Grapevine

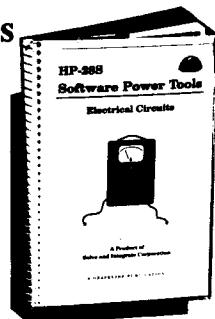
*Brand
New*

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 #28-2117, 28S Electrical Circuits, 249p spiralbnd \$17.95



HP Step-by-Step Books HEWLETT PACKARD

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

Stock #28-603, Algebra & College Math 90101 \$9.95

Stock #28-604, Vectors & Matrices 90105 \$9.95

Stock #28-605, Calculus 90102 \$9.95

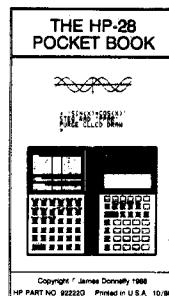
Stock #28-606, Probability & Statistics 90104 \$9.95

Stock #28-607, Math Applications 90111 \$9.95

HP-28 Pocket Book

by James Donnelly

Brand New



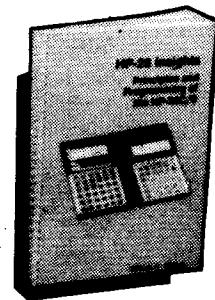
All the help and reference you'll want to have along with you—fits right in your instrument's case.

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

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

HP-28 Insights

by William Wickes



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

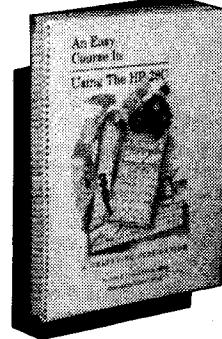
If you want to do serious programming on the HP-28, you'll find this indispensable. It contains over 100 programs, with more than half the book applicable to programming.

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 #28-616, HP-28 Insights, 340p wirebound \$24.95

An Easy Course Using the HP-28S

by Grapevine



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!

Then 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 #28-532D, HP-28S Easy Course 92236D, List \$23 \$21.95

28S Classroom Display

Firmware Corp

*Brand
New*

Project HP-28S calculations and graphics with a standard overhead projector—this modified calculator has its display transparent from the rear—it's expensive, and it won't fit in your pocket, but it will do the job for you and your institution. Order a complete description.

Stock #28-2179LIT, Classroom Display literature Free

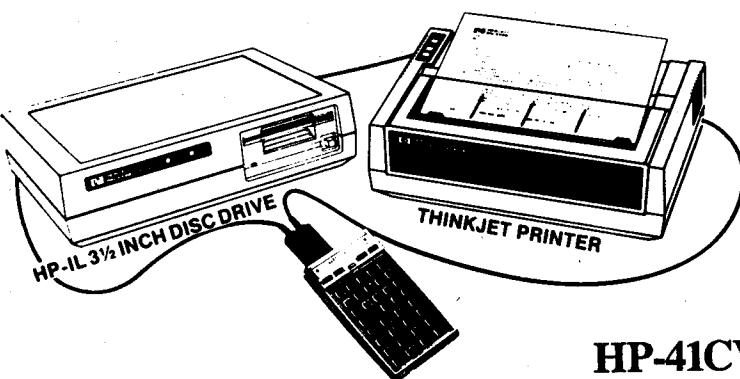
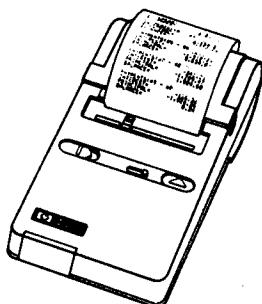
HP-41 Calculators

Here's where you find...

HP-41 Peripherals	43
Batteries/Rechargers	44
Accessories	44
Memory Modules	44
Application Pacs	45
Combined Modules	49
EPROM Modules	49
Soft/Bookware	50
Synthetic Programming	54



HEWLETT
PACKARD



HP-41CV

HP-41CX

ABSOLUTELY the WORLD'S BEST, the HP-41—standard for the leaders in each scientific profession, coveted by the smartest students.

Faster than a mainframe for your everyday problems, with keyboard simplicity, the easy logic of RPN, and the precision of 10 quick digits—the HP-41 actually guides you to your solution.

- **Big Main Memory:** 319 data registers or 2233 bytes of program and data memory.
- **Additional Memory:** 124 registers or 868 bytes of 'expanded' memory built-in (optional for the CV with Extended Function/Memory Module).
- **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 (for all models) is 919 registers or 6433 bytes!
- **24K Operating System:** 200 built-in functions at your fingertips (12K system with 128 functions in model CV, expandable to 24K with Extended Functions/Memory Module).
- **It is a Clock, Calendar, Alarm, Timer, and Stopwatch:** your HP-41 can become the heart of a time-based system controller (optional with Time Module for model CV).
- **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 #HP-41CV, List \$175.....\$129.95

Stock #HP-41CX, List \$249.....\$179.95

EduCALC Technical Notes

By Richard Nelson

Have a technical question? We may have the answer all ready for you—send us a 25 cent stamp for each stock number you request:

Stock #TN1, HP-41CV or HP-41CX?

Stock #TN2, HP-28C or HP-41CX?

Stock #TN3, HP-41 Printers. What are the choices?

Stock #TN4, Adding More Memory to My HP-71.

Stock #TN5, Adding More Memory to My HP-41.

Stock #TN6, Combining HP-41 Modules to Save Ports.

Stock #TN7, HP-41 Speed Ups. Worth the cost?

Stock #TN8, Advanced User Products.

Stock #TN9, HP-41 Power Sources.

Stock #TN10, HP-41 EPROMs

Stock #TN11, Video Monitors and Handheld Calculators

Stock #TN12, Connect PCs & HP Handhelds via HP-ILs.

Stock #TN13, Programming 'Languages' on the HP-41.

Stock #TN14, Static Electricity and my Calculator.

Stock #TN17, HP-41 MCODE Programming.

Stock #TN18, Off-Line Storage for my HP-41.

Stock #TN19, HP-41 Glossary of Terms.

Stock #TN20, Factoring Large Numbers on the HP-16.

Stock #TN22, What Is HP-IL?

Stock #TN23, Calculating with Fractions

Stock #TN24, Synthetic Programming on the HP-42S

Stock #TN25, Currency Conversions on HP-12C

Stock #TN26, Swap Disc Service Description and Details

Calculator batteries, stands & cases—see pp 13-15

HP-41 Calculators

HP-41 Peripherals

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



Get It Down on Paper

The Business Consultant II has a silent partner that prints your calculations and results. It's a thermal strip printer that operates on an AC adapter or four AA alkaline batteries (included) for go-anywhere portability.

An Invisible Connection

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

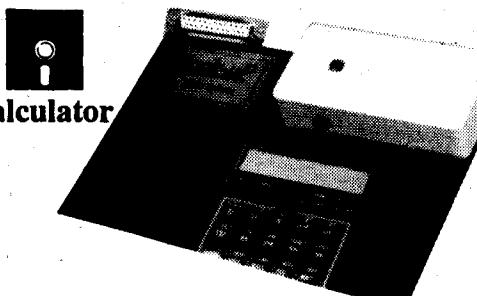
You have plenty of leeway—up to a foot and a half—to put the printer where it's most convenient for you. Just point the Business Consultant II at it and push [PRINTER]. No cords to tangle with.

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 #82240 [InfraRed Printer] List \$135 \$105.95
Stock #82241 [AC Adapter for IR Printer] \$14.95
Stock #82175 [Printer Paper, black, 6 rolls] \$9.95
Stock #82175B [Printer Paper, black, 2 rolls] \$3.95
Stock #AA [Batteries, Printer uses 4] each \$0.85
Stock #92169G [Cover, black] \$22.95
Stock #92169H [Cover, brown] \$22.95
Stock #92169J [Cover, burgundy] \$22.95

Hook-uP

Rush Systems



Interface your
InfraRed HP-calculator
to your PC!

**Rush
Systems**

Now you can display your calculator's programs, data or graphics on your computer's monitor, so you can review it all at once or show it to others (at a meeting or in class).

You can also file the calculator output on floppy or hard disc for permanent storage or mailing. Use your calculator to gather and analyze data, then use the computer to store it or manipulate it in a database or spreadsheet.

Accepts IR output from the HP-17B, 18C, 19B, 27S, 28C, 28S, HP-42S or HP-41 with IR Module. DB25 female plug attaches to your PC's serial port (COM1 or COM2). Requires DOS 2.0 or later, any printer to print text; Epson or IBM graphics printer or graphics display optional for graphics output of 19B, 28C or 28S. Manual and software included. Graphics output requires CGA or compatible card.

Stock #41-896 [Hook-uP, 5 1/4"] List \$95 \$84.95
Stock #41-896A [Hook-uP, 3 1/2"] List \$95 \$84.95

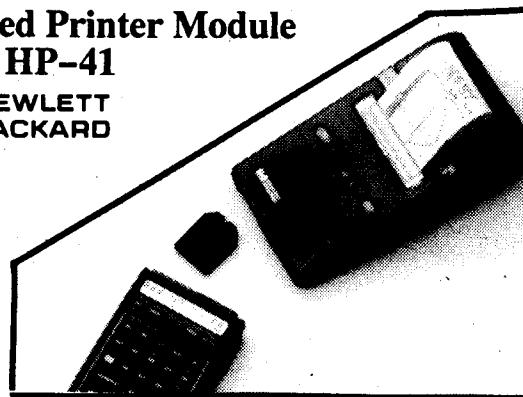
Blank Mag Cards

Without holders.

Stock #13141 [40 Magnetic Cards] \$17.95
Stock #13143 [120 Magnetic Cards] \$42.95



InfraRed Printer Module for the HP-41



Print via infrared from your 41—this new module just plugs into your instrument. It protrudes about 1/4 inch so it can flash printer commands to the 82240 printer. No cables—you merely point and push a button.

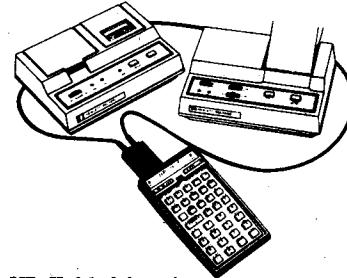
The 82240 printer can also be driven by the HP-17B, 19B, 27S and 28C. It is super-portable—small and battery powered, it will fit in a briefcase. This printer is inexpensive—yet it even does graphics, so now you'll be able to draw graphs with your 41 (see our printer description on page 14).

Stock #82242 [41 IR Printer Module] List \$65 \$54.95

HP-IL Module

The HP-IL Interface Module plugs into any one of the four ports in the HP-41, connecting your handheld computer with an ever-growing 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 #82160 (HP-IL Module) List \$125 \$99.95



Mag CardHolder

Star Fleet

This unique soft plastic magnetic card holder with 40 individual slots will add organization to a cluttered world. If your collection of HP-41 mag cards is more than 10, this could be your best \$2.50 investment.

Stock #41-524 [Magnetic Card Holder] \$2.50

Mag Card Holder



Book style card holder from HP (like the one you got with your card reader). Holds 8 cards a page on 5 plastic pages; measures 3" x 5 1/2" x 1/4".

Stock #13142 [Mag Card Book] \$4.25

HP-41 Mag Card Holder

Imtec

Fights chaos! Transparent plastic loose-leaf 8 1/2" x 11" sheet with 66 welded pockets for cards. Printed forms inside show which cards are out-of-file and where they go.

Stock #41-568 [HP-41 Card Sheet] \$3.95

HP-41 Calculators

Batteries/Rechargers

NiCd Multi-Charger
for N, AA, AAA
and 9-volt size batteries

**Leford
Micro**

Just think, in the thousands of hours of service from a NiCd (with 1000 recharges) you'll save hundreds of dollars over throw-aways. 5 year/1000 recharge warranty.

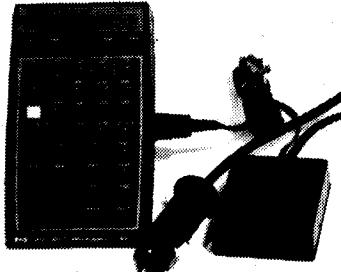
Protected against polarity reversal. 41-835 includes sleeve-adaptors for N-cells.

Stock #41-835 [Charger, Adapters, 4 NiCd N-cells]	\$25.95
Stock #41-738 [Charger; batteries/adapters not inc]	\$13.95
Stock #NAA [NiCd AA-cell]	each \$2.95
Stock #41-836 [2 Sleeve-Adapters for N-cells]	\$2.50
Stock #N-NiCd [NiCd N-cell]	each \$2.95
Stock #9VN [9v NiCd cell]	\$8.95



Cigarette-Lighter Adapter

S.O.S.



Power-up on the go! Replaces HP-82059 charger (except for RS-232 interface) to power the HP-41 or its printer, cassette drive, ThinkJet printer, or HP-110.
Stock #41-561 [12 VDC Adapter] List \$39.95\$34.95

HP-41 SpeedUp Conversion Service

S.O.S.

Soup up your 41 to run at 170% of stock speed. Just send us your working HP-41—we'll return it in about 3 weeks with new muscle!

Switchable to standard speed for card reading. Conversion will void any remaining HP warranty—but S.O.S. warrants work on your used machine for 90 days or on your new one for one year.

Stock #41-840 [S.O.S. 41-Speedup]	\$46.95
Stock #41-840V (HP-41CV with SpeedUp)	\$174.95
Stock #41-840X (HP-41CX with SpeedUp)	\$224.95

Rechargeable Battery Pack and Recharger

**HEWLETT
PACKARD**

The battery pack of 4 half size N Cells fits into your HP-41 and remains in your machine during recharging periods. The external recharger plugs into the pack through the tunnel cover on the side of the HP-41 and provides hundreds of recharges. The recharger fits other HP equipment.

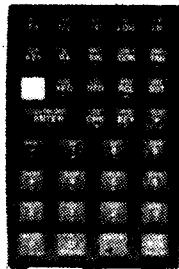
Stock #82120 [Rechargeable Battery Pack]	\$32.95
Stock #82059 [Recharger]	\$18.95

Thank you for your order

HP-41 Accessories

Touchpad Keyboard Overlay

**hp HEWLETT
PACKARD**



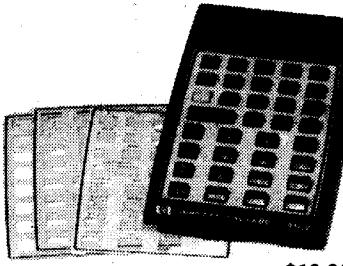
It will keep your HP-41 safe from coffee or other problem liquids or particles. This plastic membrane snaps into place over the keyboard. All of the button nomenclature has been reproduced on it.

Stock #82200 [Touchpad] List \$20.....\$18.95

Overlay Kit

**hp HEWLETT
PACKARD**

Perfect for programmers in the process of developing new programs. Has three blank plastic overlays and one with standard nomenclature. A pressure sensitive sheet of terms as well as blank spaces that may be positioned on the overlay are also included.

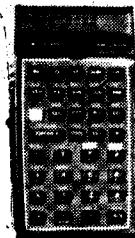


Stock #82152 [Overlay Kit]\$13.95
Stock #82172-5 [5 Blank Overlays]\$6.50
Stock #82172 [50 Blank Overlays]\$54.95

Protector for HP-41 Calculators

COMP-U-BAG

**NEW
Anti-Static
Version**



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 #41-543 [Comp-U-Bag] List \$2.50\$2.25
Stock #41-543T [10 Comp-U-Bags] List \$25\$20.00
Stock #41-543A [Anti-Static Bag] List \$3.50\$2.75
Stock #41-543R [41 + RAM box Anti-Stat Bag] List \$3.50\$2.75

Memory Modules More Memory For Your HP-41

Do you ever run out of memory—and have to discard programs and data you want to save? Why not exploit the fantastic potential of your HP-41—get yourself the freedom of enough space, NOW!

**hp HEWLETT
PACKARD**

Extended Functions for the HP-41CV or HP-41C Quad

Plug in the Extended Functions/Memory Module (EFM) to get 868 more bytes of memory—plus many new functions you can call on, such as: Clear all key assignments, Delete named program and all following it, Restore flag status, Create data file, Directory of extended memory files, Replace last program in main memory, Purge file, Copy text file to mass storage—38 in all. Owner's Manual included.

Stock #82180 [Ext Funct/Mem Module] List \$75\$63.75

HP-41 Calculators

Memory Modules continued

Extended Memory

for the HP-41CX or HP-41CV/EFM or HP-41C/EFM

Plug in 1 or 2 Extended Memory Modules—each module adds 238 registers or 1666 bytes to your machine. With both added you'll have a grand total memory space of 6433 bytes, including 4200 bytes of extended memory.

Stock #82181 [Extended Memory Module] List \$75 \$63.75

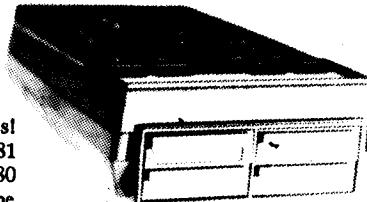
Double Extended Memory Module for the HP-41 CX or HP-41CV/EFM or HP-41C

S.O.S.

Use only one port — this single module contains two 82181 Extended Memories, so you'll save a port for other uses. Guaranteed 1 yr by S.O.S.

Stock #41-600 [Double X Mem Module] List \$185 \$149.95

Triple Module—Double X Memory Plus X Functions for the HP-41CV or HP-41C/Quad



Use only one port—you save two ports! This single module contains two 82181 Extended Memories plus one 82180 Extended Functions. Guaranteed one year by SOS.

Stock #41-601 [Triple Mod/Dbl X Mem] List \$285 \$235.95

HEPAX Modules



Big RAM memory for your HP-41—each model of Hepax is a standard-size module containing 8K or 16K of RAM. You can store your own programs and/or data in it and use it just like an HP Application Module.

Two models of Hepax contain, along with their RAM, a 16K ROM full of support functions (including equivalents to all the file-handling functions of the Extended Functions Module). Advanced functions include a powerful tool for disassembling HP-41 machine language, a hexadecimal editor so you can write your own functions in machine language, and a way to transfer whole 4K blocks of Hepax memory to/from mass storage.

'Memory lost' cannot affect your Hepax Module and programs in it can be write-protected—data is maintained as long as the module is in your instrument.

Comes with a 100p manual. You can use 2 Hepaxs at once, and only one will need ROM functions. 1 year warranty.

Stock #41-895A [Hepax, ROM & 8K RAM] \$219.95

Stock #41-895B [Hepax, ROM & 16K RAM] \$279.95

Stock #41-895C [Hepax, 8K RAM only] \$169.95

Stock #41-895D [Hepax, 16 K RAM only] \$229.95

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

Application Pacs with HP-41 Modules

Transform your HP-41 into a special-purpose machine, automatically programmed for your own needs. These Pacs contain tremendous new power. Simply plug the module in a port and in some cases install a keyboard overlay and you have hundreds of hours of proven programming at your finger-tips. It's all pre-programmed with every feature the experts could think of. Here are all the available Application Pacs, arranged by the subject areas they cover. Each comes complete with owner's manual.

Here's where you find . . .

General Interest	45
Math/Science	46
Engineering	46
Navigation/Surveying	47
Business/Finance	48
Utilities/Subroutines	48

General Interest

Horserace Handicapping Program



Profit Mgt Systems

Put yourself at a real advantage over other bettors. Speed Machine II tells you when and how to bet to maximize your return on every dollar—combines fractional and final race times to select the top 4 horses in each race and tells you under what circumstances and at what odds to make your bet.

Contains statistics on every thoroughbred and harness track in North America, and it can store data on 120 horses at once. Includes stop-watch (CX only) and Money-management functions.

Requires HP-41CV or -CX (or HP-41C with quad memory module). Plug-in module comes with keyboard overlay and manual.

Stock #41-533 (Speed Machine II Module) List \$300 \$259.95

Games



Super Bagels ■ Biorythms ■ Craps ■ Hangman ■ Submarine Hunt ■ Random Number Generator ■ Pinball ■ Space War

Stock #15022 (Games Module) \$42.95

Standard Applications



RPN Primer ■ Arithmetic Teacher ■ Word Guessing Games ■ Hexadecimal-Decimal Converter ■ Financial Calculations ■ Root Finder ■ Curve Fitting ■ Vector Operations ■ Blackjack ■ Calendar Functions

Stock #15001 (Standard Applications Module) \$42.95

Home Management



Home Budgeting ■ Travel Expense Record ■ Stock Portfolio Evaluation ■ Your Financial Calculator ■ Remaining Balance and Accumulated Interest ■ Tax Free Individual Retirement Account (IRA) or Keogh Planning ■ The True Cost of an Insurance Policy ■ Checking Account Reconciliation ■ Home Owner's Equity Analysis ■ The Rent or Buy Decision

Stock #15023 (Home Management Module) \$42.95

Time



The Time Module expands your HP-41 computing system with time information and time-controlled operations. Using the quartz-crystal controlled Time Module, your HP-41 can become the heart of a time-based system controller, an alarm clock, an appointment reminder, a calendar, a timer, even an advanced stopwatch. Already built into 41-CX. Owner's Manual included.

Stock #82182 (Time Module) List \$75 \$63.75

Stock #90395, Time Module Solution Book \$14.50

HP-41 Calculators

Application Pacs continued Math/Science

Advantage



Real and Complex Matrix Operations ■ Simultaneous Equations on Real and Complex Numbers ■ Solve (roots of $f(x)=0$) and Integrate (similar to HP-15C) ■ 3-dimensional Vector Operations ■ Complex Number Operations ■ Number Base Conversions and Boolean Logic (similar to HP-16C) ■ Curve Fitting ■ Roots and Evaluation of Polynomial Equations ■ Differential Equations ■ Coordinate Transformations ■ Time Value of Money (similar to HP-12C) ■ User-Accessible Subroutines

Stock #15055 (Advantage Module)\$42.95

AECROM

Redshift Software

- Fast, accurate curve fitting: chooses a best fit from 16 families of curves to fit your X-Y data.
- Inverse hyperbolic functions: ACOSH, ASINH and ATANH as well as SINH and TANH.
- Fractional, decimal feet, decimal inch and metric modes: programs execute in any mode; instant conversions, without special key assignments.
- Creates programs to solve your equations: you key in your equation and it writes the solution program, fast.
- Many useful Display and Print utilities.

Stock #41-700 (AECROM Module) List \$97.50\$89.95

Clinical Lab and Nuclear Medicine



Clinical Chemistry ■ Beer's Law ■ Body Surface Area ■ Creatinine Clearance ■ Blood Acid-Base Status ■ Oxygen Saturation and Content ■ Red Cell Indices

Nuclear Medicine ■ Total Blood Volume ■ Thyroid Uptake Radioactive Decay Corrections

Radioimmunoassay Statistics ■ Basic Statistics ■ Chi-Square Evaluation and Distribution ■ t Statistics ■ t Distribution

Stock #15024 (Clinical Lab/Nuclear Med Module)\$42.95

Math/Statistics (Combined Pac)



Matrix Operations @Solutions to $f(x)=0$ on an Interval ■ Polynomial Solutions/Evaluation ■ Numerical Integration ■ Differential Equations ■ Fourier Series ■ Complex Operations ■ Hyperbolics ■ Triangle Solutions ■ Coordinate Transformations ■ Basic Statistics for Two Variables ■ Moments, Skewness and Kurtosis ■ Analysis of Variance (One Way) ■ Analysis of Variance (Two Way) ■ Analysis of Covariance (One Way) ■ Curve Fitting (Linear, Exponential, Logarithmic, and Power Curve) ■ Multiple Linear Regression ■ Polynomial Regression ■ t Statistics ■ Chi-Square Evaluation ■ Contingency Table ■ Spearman's Rank Correlation Coefficient ■ Normal and Inverse Normal Distribution ■ Chi-Square Distribution

Stock #15049 (Math/Statistics Module)\$42.95

Engineering

Structural Analysis for Civil Engineers



Section Properties ■ Beams ■ Simply Supported Continuous Beams ■ Continuous Frame Analysis ■ Setting of Continuous Beams ■ Steel Column Formula ■ RPN Vector Calculator ■ Reinforced Concrete Beams ■ Reinforced Concrete Columns ■ Effective Moment of Inertia for Concrete Sections

Stock #15021 (Structural Analysis Module)\$44.95

Stress Analysis for Mechanical Engineers



Section Properties ■ Beams ■ Simply Supported Continuous Beams ■ Columns ■ Mohr Circle Analysis ■ Soderberg's Equation for Fatigue ■ Strain Gage Data Reduction ■ RPN Vector Calculator

Stock #15027 (Stress Analysis Module)\$42.95

Hydraulics Pac for the HP-41

Paul Munroe

This Program Module, Keyboard Overlay and 43p. User Manual converts your HP-41 into a powerful hydraulics engineering tool. Analyzes system design problems and then supplies solutions. Pays for itself in minutes for Engineering Sales or Service Personnel! It is a valuable learning tool, too, with English input prompts and output labels. 6 PRESSURE Programs (unit conversions, drop with flow, hose/pipe/tube sizing, fluid compression). 4 VOLUME Programs (unit conversion, liquid/gas change with temperature, accumulator sizing), 3 VISCOSITY Programs (conversions, valve/orifice sizing), 5 AREA Programs (cylinder area/sizing, single/double rod cylinder sizing, ram sizing), 6 ROTARY POWER Programs (hydrostatic/winch transmission sizing, pump bearing life, kw/hp conversion, pump hp), 4 TEMPERATURE Programs (unit conversions, change with throttling, gas-pressure change, heat-exchanger sizing). Descriptive literature available on request.

Stock #41-148 (Hydraulics Module)\$99.95

Stock #41-148L, Hydraulics Module LiteratureFree

HP-41 Civil Engineering

March Programming

Dirt Quantity and Longitudinal Profile Calculations, handheld where you need them, and fast. Drafts the slope of the cross sections and gives cut and fill volumes separately, announcing the end balance at each cross section. Gives differential elevations between natural ground and street section. Calculates (and drafts, if required) longitudinal profile of roads and highways.

Requires HP-41C. Works with English or Metric measurements.

Stock #41-815 (March CE Module)\$99.95

Petroleum Fluids



Z-Factor ■ Gas Isothermal Compressibility ■ Gas Formation Volume Factor ■ Gas Viscosity ■ Pseudocritical Temperature and Pressure from Gas Gravity ■ Gas Properties from Composition ■ Oil Isothermal Compressibility ■ Oil Formation Volume Factor ■ Oil Viscosity ■ Gas-Oil Ratio ■ Bubble Point Pressure ■ Two-Phase Formation Volume Factor ■ Water Isothermal Compressibility ■ Water Formation Volume Factor ■ Water Viscosity ■ Gas-Water Ratio ■ Rock Compressibility ■ Total Isothermal Compressibility. Includes unit management systems subroutine.

Stock #15039 (Petroleum Fluids Module)\$73.95

Circuit Analysis



General Network Analysis ■ Ladder Network Analysis

Stock #15006 (Circuit Analysis Module)\$42.95

Machine Design



Circular Cams ■ Generation of a Four Bar Linkage ■ Progression of a Four Bar System ■ Forces ■ Standard External Involute Spur Gears ■ Helical Spring Design ■ Forced Oscillator with Arbitrary Function ■ Coordinate Transformation ■ Points on a Circle ■ Circle by Three Points ■ Unit Conversions

Stock #15020 (Machine Design Module)\$42.95

Thermal and Transport Science



Equations of State ■ Polytropic Processes for an Ideal Gas ■ Isentropic Flow for Ideal Gases ■ Conduit Flow ■ Energy Equation for Steady Flow ■ Heat Exchanges ■ Black Body Thermal Radiation ■ Includes unit management system subroutines

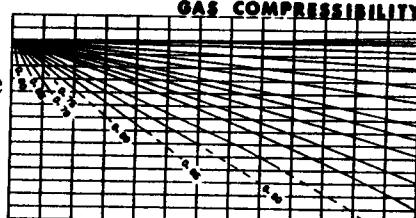
Stock #15019 (Thermal and Transp Science Module)\$42.95

HP-41 Calculators

Application Pacs continued Engineering continued

Cv-PAK **VALVE** **Sizing/Noise Module**

Sale



Spectrum Design

Impress your clients with immediate answers to lengthy valve sizing and noise calculations evaluate alternatives by touching a button! Portable, inexpensive.

Cv-PAK is menu-driven with prompts in plain English using standard industry terminology. Solves for Cv, flow, pressure drop; gas/vapor/steam sizing — vol or weight flow; noise; outlet mach number; liquid sizing with flashing and cavitation warnings; MUCH MORE. Programs may be used as subroutines, too.

User's Manual with instructions, sample problems and reference tables; Quick Reference Card.

Stock #41-735 9Cv-PAK Module) List \$275 \$199.95

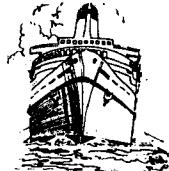
Surveying

HP HEWLETT PACKARD

Traverse, Inverse and Sideshots ■ Compass Rule Adjustment ■ Transit Rule Adjustment ■ Intersections ■ Curve Solutions ■ Horizontal Curve Layout ■ Vertical Curves and Grades ■ Resection ■ Predetermined Area ■ Volume by Average End Area ■ Volume by Borrow Pit ■ Coordinate Transformation Stock #15005 (Surveying Module) \$42.95

Loadcom

AP Systems



Ship Stability Ability—Fast!

Merchant Officers get entire loading plans in minutes, handheld. Handle any type ship, carry ship to ship, use on deck/control room/bridge.

GM, KM, KG, free surface correction and moments. Drafts, trim, displacement, fresh water corrections. Totals—DWT, cargo, fuel, water, ballast, stores.

Requires HP-41CX; printer optional. Module includes Navcom navigation system.

Stock #41-814 (Loadcom Module) List \$219 \$199.95

Stock #41-814M, Loadcom Manual only \$10

Stock #41-814R (Loadcom, Module only) \$189.95

Navigation/Surveying

KEYS

Surveying Module

Fred McMichael

Access every routine with 1 or 2 key-strokes—no spelling out!

Traverse, inverse, B-B, B-D, D-D intersects, radial stakeout, rotation, sideshots, sideshot with elevations, offsets from a line or curve with stationing, offset intersections, slide line and swing line area cut off, three points on a circle, horizontal curve stakeout, curve solutions, point to point area and traverse-inverse area including curved sides, renumber, coordinate list, directions by point numbers, numerous automatic entries, coordinate prompting for unused points, contours, stake set, slope reduction, double angles and feet to meters conversion with optional output during side shots, hour angle sunshot using ephemeris, compass and advance compass traverse adjustment. Stores and manipulates multiple files.

Requires HP-41CX. Stores 62 points, or add an Extended Memory Module to store 181 points, or add two to store 300 points (or put 5000 points on disc or cassette).

Stock #41-901 (KEYS Surveying Module) List \$200 \$189.95



COGO 41 Module 1.3



D'Zign

- Touchpad dustproofs keyboard and makes this module easy to learn, easy to use
- 16K ROM gives menu selection for programs and solutions routines
- Common unit-conversions are right on the keyboard
- 3 quick-change modes for Field, Office and Field Layout
- Input direct from instrument via interface and IL

Field mode allows multiple input of angles and distances during a traverse. The angular error/turn is displayed with the closing routine and may be auto-adjusted. Store by point number with 2- or 3-dimensional coordinates.

Office mode assumes angle and distance inputs have been measured. Full coordinate geometry for intersections using brg-brg, brg-dist, dist-dist and offset to a line, plus intersections of spiral and circular curves with other curves and lines. Predetermined areas, coordinate transformation, all from stored coordinates.

Field layout mode includes Remote Slope Staking, Topographic Pickup and Alignment Layout by station and offset. Lay out the curbs along Street Intersections, Cul-de-Sacs, etc., with a few keystrokes. Requires extended functions module.

Stock #41-913 (COGO 41 Module) \$229.95

Navcom

AP Systems

Eliminates the drudgery — automatically applies sextant corrections, automatically records sights with built-in quartz clock time, automatically updates position for fixes. Built-in perpetual almanac. All prompts and answers displayed in plain English.

Requires HP-41CX. Pop-in module includes all functions of HP Nav Module (15017).

Stock #41-813 (Navcom Module) List \$189 \$169.95

Stock #41-813M, Navcom Manual only \$10

Stock #41-813R (Navcom, Module only) \$159.95

Elgin, Knowles & Senne, Inc.

Collect Sun, Polaris and star observation data (times and circle readings) and compute an accurate astronomic azimuth to the backsight point, on-site and without inputting ephemeris data! Improved version uses extended memory to store and recall observation data, plus additional features for easier use. Easy-to-follow prompts guide your input—many options such as conversion to state plane grid azimuth, storing data, altitude and azimuth of celestial body, generates ephemeris data, accommodates practically any observation technique.

Requires HP-41CV/CX; Time Module and Extended Memory required with CV to use time/date/extended memory options. Printer optional. Technical support phone number listed. Comes with User Manual and Quick Reference Card.

Stock #41-2148 (ASTRO*ROM2 Module) List \$150 \$139.95

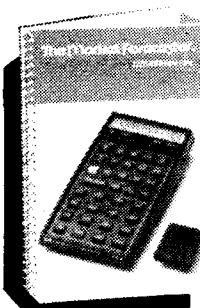
HP-41 Calculators

Application Pacs continued Business/Finance

Market Forecaster

William Finnegan Associates

New Program
for the HP-41
and Computers



Foretell the size and direction of Stock Market movement for the next 2 to 4 months—use this new program and a current copy of *Barron's*. You can literally see into the future, utilizing an econometric model with a correlation to future market moves of $r = .88$ over the last 25 years. Over the same period, simulated returns were 33.14% to 44.6% per year, after commissions. On funds managed since 1979, the Market Forecaster has never had a losing year. In fact, it has tripled the performance of the Dow with half the investment exposure. Now you can use this same technology to tell when to buy stocks, mutual funds or options, or when to retreat to the sidelines.

Order now—don't be another day behind in this confusing market!

Stock #41-131 (41 Computer Fstr, complete) List \$339 \$299.95
Stock #41-131B, (41 Forecaster Manual only) List \$22 \$20.00
Stock #S-131P (PC Forecaster, 5 1/4") List \$339 \$299.95
Stock #S-131M (Macintosh Forecaster) List \$339 \$299.95
Stock #S-131C (Cmptr Forecaster, manual only) List \$22 \$20.00

Financial Decisions

hp HEWLETT
PACKARD

Compound Interest Solutions ■ Internal Rate of Return ■ Modified Internal Rate of Return (FMRR) ■ Net Present Value ■ Loan Amortization Schedules ■ Depreciation Schedules ■ Bond Price and Yield ■ Days Between Dates
Stock #15004 (Financial Decision Module) \$42.95

Securities

hp HEWLETT
PACKARD

Bond/Note Price and Yield ■ Routines for Option Writers Using the Black-Scholes Evaluation Method ■ Warrant and Option Hedging ■ Butterfly Options ■ Yield on Call Options Sales ■ Bull Spread Option Strategy ■ Convertible Security Analysis ■ Stock Portfolio Valuation ■ Bond Speculation Using Margin ■ Convertible Bond Investment Analysis
Stock #15026 (Securities Module) \$42.95

Real Estate

hp HEWLETT
PACKARD

Compound Interest and Loan Amortization ■ Internal Rate of Return ■ Modified Internal Rate of Return ■ Net Present Value ■ Depreciation Schedules ■ Income Property Analysis ■ The Rent or Buy Decision ■ Price and Yield of a Mortgage Traded at Discount/Premium ■ APR of a Loan with Fees ■ Present Value of an Increasing/Decreasing Annuity
Stock #15016 (Real Estate Module) \$44.95

Retail Car Sales

hp Millenium Systems

Dazzle that shopper—make your sale! With the AF-1 module plugged in, your HP-41 will do all the arithmetic, bookkeeping, look-up, etc., and flash authoritative monthly payments for your customer to see.

Automated accounting includes everything: sales tax, document fee, 3 insurance options, smog cert., trade-in and pay-off, down, pickup fee, mfr's rebate, service contract, license, add-on or APR. Recompute any number of times to see how changes lower the payments. Copy off final figures onto contract. Compute your profit at any stage.

Works with every model of HP-41—in HP-41CX (or with time module), will date records and compute first payment date. Optional printer gives permanent record. ONE COMMISSION WILL PAY FOR THIS.

Stock #41-653 (Auto Sales Module) \$209.95

Utilities/Subroutines

HP-IL Development Module

Debug an HP-IL implementation or perform HP-IL transactions which cannot be performed with other HP products.

For example, you can make the HP-41 into an HP-IL analyzer. You can internally transfer bytes between any two of: the stack, the ALPHA register or a sequence of registers, the HP-IL loop, or an array of bytes (the buffer). You can get I/O in hex, octal or binary. More. More. More.

Stock #15043 (Development Module) \$73.95

ZENROM Module

Zengrange

A Synthetiker's delight—it's like doubling the memory of your HP-41. Just plug in this 4K machine-language ROM and ALL SYNTHETIC FUNCTIONS become automatic and commonplace, without key assignments or memory used. Keyboard overlay included to show all the options for synthetic text functions. RAM Editor function works anywhere in RAM. Machine Code Editor function accesses any place in ROM (edits any plugged-in MLDL or Protocoder II).

Carefully thought-out so it's easy and efficient to use. There is a manual with good, clear instructions—and whole chapters on the theory of Synthetics and Machine Code which even a beginner can read! Owner's Manual included.

Stock #41-550 (ZENROM Module) List \$115 \$99.95
Stock #41-550M, Manual only* \$19.95
Stock #41-550R (ZENROM, Module only) \$80.00

CCD

(translated from the German)

W & W Software

Sale

New 8K microcode ROM adds more than 100 keywords to your HP-41—plus enhancements like lower case characters and synthetics (STO M) right from the keyboard. Direct synthetic programming with normal keystrokes, and new CAT-, XEQ-, and ASN-funktions. PEEK & POKE utilities, with access to all RAM locations at byte level, and full handling of hex. 30 new math funktions handle matrices in RAM or X-Memory, new I/O funktions with error checking and formatted output.

Complete with English manual, quick reference guide and keyboard overlay.

Stock #41-562 (CCD Module) \$149.95
\$99.95

PPC ROM Module

PPC

Sale

The PPC ROM is an 8K Custom ROM Module manufactured by HP for PPC, an independent user organization. The accompanying 500-page manual exhaustively documents the use of its 122 programs in 4 categories—math, peripheral, utility, and synthetic. State-of-the-art programs allow you to sort registers, alpha compare, do matrix operations, create synthetic instructions, assign any 2-byte function to a key, analyze bar code, do multiple function and precision plotting, perform calendar operations, count bytes, fit curves, compute derivatives, do financial calculations, integrate, and much, much more. The most powerful HP-41 ROM available, and the best value to boot.

The PPC ROM contains 67 synthetic programs. The 500-page manual is an excellent source of information for intermediate users of SP who want to learn more.

Stock #41-518 (PPC ROM Module) List \$95 \$59.95
Stock #41-518M, Manual only* \$7.95
Stock #41-518R (PPC ROM, no Manual) \$52.00
\$129.95

HP-41 Calculators

Application Pacs continued Utilities/Subroutines continued

Extended I/O



HEWLETT
PACKARD

The module provides 59 functions which extend the I/O capabilities of the HP-41 beyond those provided by the HP-IL Module (82160). HP-IL Module is required for use with most functions of the extended I/O Module. With the Extended I/O Module, the HP-41 can be used to control HP-IL devices or non HP-IL instruments through HP-IL interfaces. Extended I/O functions can be divided into 4 main categories:

1. Mass storage functions
2. Character manipulation functions
3. HP-IL control functions
4. Advanced control functions

Stock #82183 (Extended I/O Module) List \$75.....\$63.75

Plotter



HEWLETT
PACKARD

The 8KB Plotter Module fits easily into one of the HP-41's four ports to give you bar code generation and plotting capabilities. The Plotter Module enables you to use your Series 40 computer with the HP7470A Graphics Plotter (opt. 003) to plot Series 40 bar code as well as non-HP bar code. It also enables a Series 40 to print Series 40 bar code using the HP82162A Thermal Printer/Plotter. Take advantage of ready-to-go bar code generation programs or write your own. The Plotter Module also allows you to produce high-quality plots on HP's low cost, HP7470A Graphics Plotter. This module contains 52 plotter functions to help you design your own programs.

Stock #82184 (Plotter Module) List \$90.....\$79.95

HP-41 Barcode Generator for the IBM-PC

For LaserJet+
and Series II

Tony Malburg

Sell your HP-41 programs, or send them to friends.

Just use these generators to print your programs in barcode form—they can then be read with the HP 82153 Optical Wand.

Each program comes on disk for PC/Compatibles driving an Epson/Compatible, NEC 24 pin, Star Micronics or Olympia NP dot matrix printer, or an HP-LaserJet/Compatible. Each supports the LINK program to 'print' your 41 programs to a PC file.

Generator A accepts ordinary text files containing HP-41 program instructions (including synthetics). It outputs both non-private and private program barcode.

Generator B outputs direct-executing, numeric, alpha-replace and alpha append codes. There's even a special routine so experimenters can create custom codes.

Each generator package comes with a manual giving complete descriptions and explanations as well as instructions.

Stock #S-395A (41 Barcode Generator-A, 5 1/4") List \$50.....\$44.95

Stock #S-395B (41 Barcode Generator-B, 5 1/4") List \$50.....\$44.95

Combined Modules

Not Enough HP-41 Ports?

S.O.S.

Combine two or three HP-41 modules into one!

Dual Modules—Combine a Quad Memory, Extended Memory or Time Module with each other or any normal Application Pac.

Triple Modules—Combine one Extended Functions and two Extended Memory Modules (this is the most common), or any one normal Application Pac with two Extended Memory Modules (HP-41CX).

HP-IL Conversion—Your HP-IL can be combined with either the HP-IL Development, Extended I/O or Plotter Module. All conversions are warranted by S.O.S. (not HP) for 1 year after conversion. Please allow 2 to 3 weeks, list any modules that you are enclosing for conversion on the order form and indicate that they are supplied by you. Price of service does not include modules.

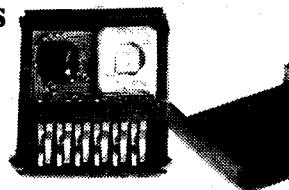
Stock #41-531D [Double Module Conversion].....\$30.00

Stock #41-531T [Triple Module Conversion].....\$55.00

Stock #41-531L [HP-IL Conversion].....\$45.00

EPROM Modules

Custom EPROM Modules for the HP-41



You can have your own programs burned into a custom EPROM module in SMALL QUANTITIES! These are the same size as HP modules and merely plug into any port.

That means you can test market just a few, or supply only a few of your salesmen with proprietary programs. Send your programs and worksheet on cassette tape, disc, or cards. Allow 2 wks.

In addition to the blank module (priced below), burn-in costs range from \$35 to \$90 per unit and \$10 to \$15 for duplicates (see EPROM Services, below). Worksheet required.

Stock #41-841 [CMT 10-4K] List \$95.....\$89.95

Stock #41-595 [CMT 10-8K] List \$110.....\$99.95

Stock #41-609 [CMT 10-16K] List \$120.....\$109.95

Stock #41-617V, Worksheet.....Free

EPROM Services

Your program or data can now be burned into an EPROM. All you need to supply is your worksheet and your program data on a cassette, disk or magnetic cards (2 sets of mag cards required). What you get is an EPROM (cost included for CMT-110) containing your program data. Send for your free programming worksheet (Stock #41-617). Allow 2 weeks for the programming. Completed worksheet required.

CMT-10 Modules:

	Original	Duplicates
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Stock #41-676A (programming EPROM 4K).....\$45.....\$10 each

Stock #41-676 (programming EPROM 8K).....\$65.....\$10 each

Stock #41-677 (programming EPROM 16K).....\$105.....\$15 each

ROM Modules

8K or 16K (One Time Programmable)

EduCALC

If you have tested your EPROM enough to be sure it's perfect, it may be time for you to produce ROMs at a fraction of the EPROM price. These ROMs can never be reprogrammed, so your EPROM must be completely tested.

For use, these plug into your 41 just like any Application Module. Minimum order 10.

Quantity	8K	16K
10-24	\$95.00	\$115.00
25-99	\$92.00	\$110.00
100-249	\$90.00	\$105.00

Delivery time is approx. 5 weeks. Contact EduCALC for more details.

Swap Discs

Public domain software for the HP-41, HP-71 and HP-75 is available for the cost of a blank 3 1/2" disc (\$1.99 each). This is a service and not a product, as most of the programs are not documented and none are supported in any way. See Technical Note Listing 26 (page 42 of this catalog) for details.

Stock #DSK1	(CHHU01)	45/111/105
Stock #DSK2	(CHHU02)	82/79/133
Stock #DSK3	(CHHU03)	242/51/99
Stock #DSK4	(CHHU04)	9/148/9
Stock #DSK5	(CHHU05)	1/216/0

45/111/105 means 45 HP-41 files, 111 HP-71 files, and 105 HP-75 files on the disc. Most HP user groups have details on the disc contents.

HP-41 Calculators

Application Pacs continued EPROM Modules continued

Zeprom Programmer

Create your own 16K application modules
for the HP-41—economically!

Firmware

Have your own local EPROM programming capability. This self-contained device can be controlled from your HP-41—so the only other gear you'll need is an ultra violet light for erasing EPROMs.

US-made machine builds a complete 16K ROM image with global labels that can be linked across the entire 16K; it also serves as a ROM emulator for testing.

Programmer may be controlled by a 41—it's fully compatible with the cassette and disc drives. It also connects to a PC via an RS232 interface. It has 2 ports and can create 2 ROMs at once. (For further technical info, call 503-753-9314.)

ZEPROMs are programmable/erasable/reprogrammable plug-in modules that fit the HP-41. Made by Zengrange, Ltd, they can be configured 8 or 16K, or 12 or 16K bankswitched, and can accommodate User Code, M Code, or both. They can be erased and reprogrammed *without* dismantling the module case.

Best of all, ZEPROMs have been fully tested to British and NATO military standards of quality and reliability—including MIL STD 883C and BS9400.

Stock #41-863 [Zeprom Programmer] List \$650.....\$599.95

Stock #41-864 [Zeprom 16K module blank] List \$150.....\$135.95

Economy

UltraViolet EPROM Eraser

Tiny and Fast (less than 3 minutes)—erases one at a time. 110 VAC power, plastic enclosure.

Stock #LD-925 [UV EPROM Eraser].....\$59.95

Logical
Devices

Soft/Bookware

PC/Compatible Transfer Program for HP-41, 71 and 75 Files



Steinmetz & Brown

You could always use your Steinmetz & Brown disc drive to exchange HP-110 files with the IBM PC world, but now you can do the same with your HP pocket computer. Transfer files both ways. Use your PC to edit files for use on your 40/70.

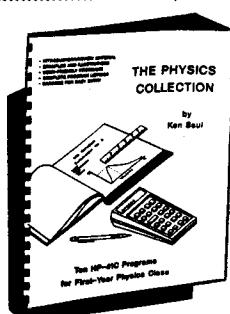
The programs in this LIF-Reader package permit you to collect data on 5 1/4" discs using your series 40 or 70 computer. You can then transfer it to text, DIF, SYLK and other forms for use with your MS-DOS spreadsheet, database or wordprocessing software. Many utility functions are also included so you can alter file formats and contents.

Comes on 5 1/4" disc for IBM PC/Compatible with 128K RAM, MS-DOS 2.0 or later, and SB 10161 or SB 10162.

Stock #S-389 (LIF REader, 5 1/4").....\$65.95

The Physics Collection

by Ken Saul



Raises your Exam Scores!

HP-41 programs for frequent 1st year Physics problems, written by a former OSU student and published by the HP User's Library. Helps a lot in the lab as well as on homework and exams. Complete program listings and bar code. 10 programs.

Stock #41-415, Physics Collection, 66p combound.....\$14.95

Advanced Programming Tips for the HP-41 by McCornack/Jarett

For serious programmers — explains modular programming (and how to save bytes and running time), synthetic programming (with several unpublished techniques and line-by-line analyses of many programs), M-code (so you can decide if this area of programming is for you), and application routines (with discussions of several for the ZENROM and CCD modules).

Bar code is included for the programs.

Stock #41-491, 41 Adv Programming Tips, 340p sftbnd.....\$20.95



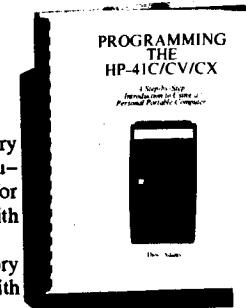
Programming the HP-41C/CV/CX 2nd Edn

by Thomas Adams

Give this step-by-step course a half-hour every day and you'll soon be a programming pro. The author has himself written many (medical) programs for the HP User's Library—now he shows you how with lots of examples, charts, diagrams and illustrations.

Despite its intermediate level, this introductory book has no prerequisites, and you can follow it with any model of the HP-41.

Stock #41-413, Prog HP-41C/CV/CX, 171p spiralbnd.....\$19.95



HP-41 Extended Functions Made Easy

by Keith Jarett

If you own an HP-41CX or an Extended Functions Module, you need this book. If HP's manuals have left you wondering whether you can really do anything useful with your Extended Functions/Memory Module or HP-41CXs, it's not your fault. The manuals barely begin to describe their capabilities. This book explains each function fully at an intermediate-to-advanced level, giving examples and typical uses.

Application programs include: a mailing list manager, a text editor, a root finder, differentiator, integrator, and much more. Chapter 10 has several powerful synthetic utility programs (with barcode) for advanced users or wand owners. Put your Extended Functions and Extended Memory to work!

Stock #41-206, Ext Functions Easy, 240p spiralbound.....\$16.95



Extend Your HP-41

by Wlodek Mier-Jedrzejowicz

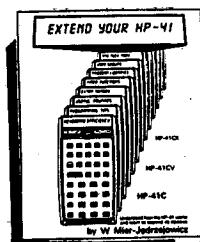
This is the
definitive work
on the HP-41!

The ULTIMATE REFERENCE BOOK for your HP-41 system — plus many hours of FASCINATING READING. The first 200 pages show a beginner how to make full and efficient use of his instrument; even experts will appreciate some of the clever programming hints in this advanced-level book.

Next come explanations of Time and Extended Functions, and Extended Memory, with a full discussion of peripherals and modules (including the Advantage). The last 200 pages introduces synthetic programming and illustrates several new SP tricks, covering PRP and PAC functions plus synthetic key assignments that use no synthetic instructions! Appendices include bar code and a list of system bugs.

This is the largest and most complete collection of useful facts for the HP-41 system—no 41 owner should be without it.

Stock #41-621, Extend your HP-41, 670p softbound.....\$29.95



HP-41 Calculators

Soft/Bookware continued

Point Storage Conversions Booklets

Combined, these booklets turn your existing HP Surveying Pac into a complete Point-Storage System. Use them separately or together. Requires HP-41, Survey Pac and a few minutes time for editing. Each booklet contains program listing, user instructions and keystroke examples; also available with all programs on magnetic cards.

Traverse, Inverse and Sideshots

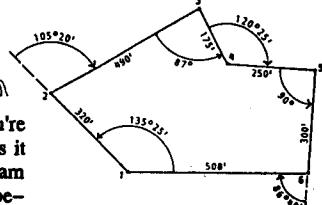
D'Zign

Works just like the Survey Pac you're used to, but it stores the co-ordinates as it calculates them. A short driver program also does really fast radial inversing between the stored points for radial stakeout.

A built-in compass adjustment routine not only adjusts the coordinates, it also inverts between them as it makes the adjustment. No need to re-input the adjusted coordinates to get the new bearings and distances.

Stock #41-536, Trav/Inv/Sideshots, 20p combbound \$6.95

Stock #41-536M (Trav/Inv/Sideshots, Mag Cards incl) \$12.95

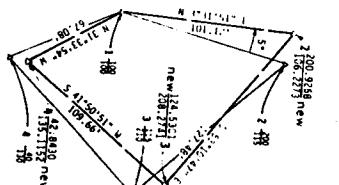


Coordinate Transformation

Rotate or re-scale the coordinates you stored as you calculated the traverse, or input the coordinates manually. Eliminates the need for inverting with the traverse routine after rotation or scaling of coordinates, because the inverting is done automatically as the coordinates are changed. Takes half the time of the Survey Pac program.

Stock #41-886, Coordinate Transform, 20p combbound \$6.95

Stock #41-886M (Coord Transform, Mag Cards incl) \$12.95



D'Zign

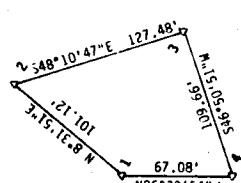
Intersection Solutions

D'Zign

Use this one with the stored coordinates to establish any new points needed. It will use pre-stored or manually input coordinates by point number to quickly solve intersection problems. Brg-Brg, Brg-Dist, Dist-Dist or Offset to a Line.

Stock #41-527, Intersection Solutions, 16p combbound \$6.95

Stock #41-527M (Intersection Sols, Mag Cards incl) \$12.95



Predetermined Areas

D'Zign

Calculate needed areas for subdividing with the stored point numbers from your traverse. Fast resolution of the area. User assigns the new point numbers as the areas are calculated. All newly generated coordinates are stored for reuse.

Stock #41-889, Predetermined Areas, 20p combbound \$6.95

Stock #41-889M (Predetermined Areas, Mag Cards incl) \$12.95

These Point Storage Conversions have been programmed for your PC (with 512K and DOS 3) by Tacit Logic, Inc. Requires CALC-41, stock # S-747C, installed. You can either key in your present data to your PC or use ELI-IL or SX-232 software to transfer field information from your HP-41. Illustrated manual included.

Stock #41-2086 (PC Point Storage Conversions, 5 1/4") \$49.95

Solutions Booklets

Quick solutions to a surveyor's everyday problems—programs for use in HP-41 with Survey Pac.

Spiral Curve Solutions

D'Zign

The only complete spiral curve program for a handheld! Contains the standard Deflection-Chord and Tangent-Offset solutions, and will also calculate the coordinates of any station or offset to a station anywhere within the system.

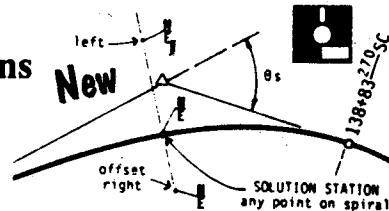
Subroutine will automatically calculate the inverse from the instrument to any calculated point; new Spiral to Line and Spiral to Curve intersection routines.

Stock #41-888, Spiral Curve Solns, 36p combbound \$6.95

Stock #41-888M (Spiral Curve Solns, Mag Cards incl) \$12.95

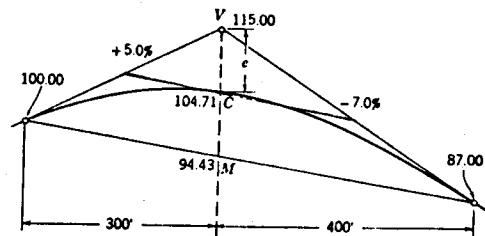
PC program requires CALC-41, stock # S-747C, installed.

Stock #41-2087 (PC Spiral Curve Solns, 5 1/4") \$29.95



Vertical Alignment Solutions

D'Zign



Calculate continuous vertical alignment without changing back and forth between grade and curve routines. Output is in a form that makes sense and prevents mistakes.

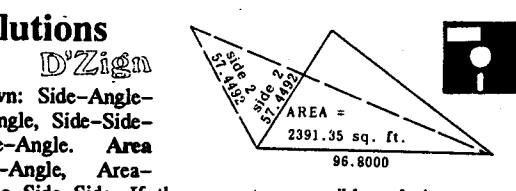
Asymmetrical curves are handled as easily as symmetrical. Includes a routine for calculating compounded or reverse vertical curves.

Stock #41-885, Vertical Alignment Sols, 16p combbound \$6.95

Stock #41-885M (Vertical Alignment, Mag Cards incl) \$12.95

Triangle Solutions

D'Zign



Three sides known: Side-Angle-Side, Side-Angle-Angle, Side-Side-Angle, Angle-Side-Angle. Area known: Area-Side-Angle, Area-

Angle-Angle or Area-Side-Side. If there are two possible solutions to a problem, both are output.

Stock #41-890, Triangle Solutions, 14p combbound \$6.95

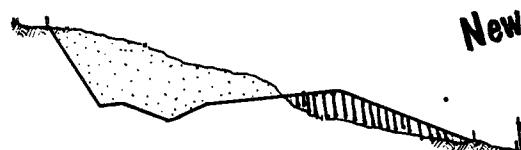
Stock #41-890M (Triangle Solutions, Mag Cards incl) \$12.95

PC program requires CALC-41, stock # S-747C, installed.

Stock #41-2088 (PC Triangle Solutions, 5 1/4") \$29.95

EDM Slope Staking

D'Zign



Set slope stakes with your EDM. Program reduces each shot to the information needed to make out the stake. Subroutine gives the angle and distance for setting the reference stake, then produces the information to put on it.

Works from anywhere in the general vicinity of the alignment you are staking as long as you know the station and offset of the instrument and backsight.

Stock #41-887, EDM Slope Staking, 18p combbound \$6.95

Stock #41-887M (EDM Slope Staking, Mag Cards incl) \$12.95

HP-41 Calculators

Soft/Bookware continued

HP-41CV/CX Surveying Field Solutions

D'Zign

These programs work! They're being used right now on the BART, Los Angeles and Seattle rapid transit projects. This is due in part to the automatic stakeout routines for the alignment programs — there are no other programs available which will automatically calculate and inverse to offsets to a spiral curve.

The Topo and As-built programs work without a data collector or interface to theodolite. With a printer, the field data is broken down to ready-to-plot form in the field, as shots are taken (and with few keystrokes).

Field Layout programs are Radial Inverse, Alignment & Offsets, Auto-Inverse. Spiral Curves programs are Deflection & Chord, Alignment & Offset, Auto-Inverse, Tangent Offset, Radial Inverse. Field Location programs are Topo, As-builds, Remote Slope Staking, Tunnel Tights. Triangle Solutions.

All in all, this contains over 2000 lines of program listings—programs are also available separately on magnetic cards.

Stock #41-417, Survey Field Sol, 116p combbound \$21.50

Stock #41-417C (Mag Cards for Surv Field Sol) \$19.95

These Surveying Field Solutions have been programmed for your PC (with 512K and DOS 3) by Tacit Logic, Inc. You can either key in your present data to your PC or use ELI-IL or SX-232 software to transfer field information from your HP-41. Illustrated manual included.

Stock #41-2084 (PC Surveying Field Solns, 5 1/4") \$49.95



Geometrics Solutions

D'Zign

Do you design
or lay out subdivisions?

All you need to know are the street widths and the radii — you'll have solutions in minutes, with your HP-41 CV/CX.

Street intersections, cul-de-sacs, bulbs and knuckles are solved, with or without coordinate output. Or, you can calculate complete radial layout of a cul-de-sac or street intersection quickly, starting from scratch! No more switching back and forth between traverse, intersection and curve programs!

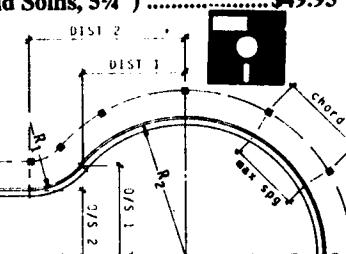
Book includes complete instructions with program listings. Programs also available already keyed in, on mag cards.

Stock #41-449, Geometrics Solutions, 94p combound \$19.95

Stock #41-449C (Programmed Mag Cards only) \$19.95

These Geometrics Solutions have been programmed for your PC (with 512K and DOS 3) by Tacit Logic, Inc. You can either key in your present data to your PC or use ELI-IL or SX-232 software to transfer field information from your HP-41. Illustrated manual included.

Stock #41-2085 (PC Geometrics Solutions, 5 1/4") \$49.95

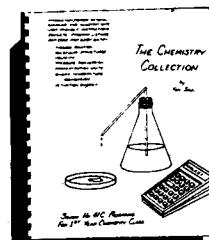


The Chemistry Collection Raises your Exam Scores!

by Ken Saul

HP-41 programs for frequent 1st year Chemistry problems, written by a former OSU student and published by the HP User's Library. Helps a lot in the lab as well as on homework and exams. Complete program listings and bar code. 7 programs.

Stock #41-414, Chem Collection, 47p combbound \$14.95

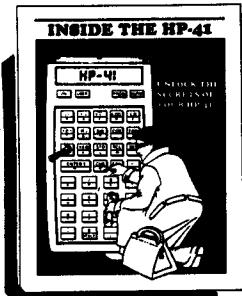


Inside The HP-41

by Jean-Daniel Dodin

(translated from the French
by Mary-Denise Dodin
and I. Vandenabeele;
revised and edited by Wilson W. Holes)

Price
Reduced

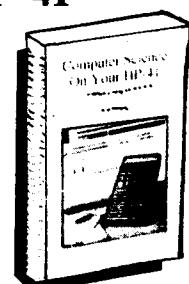


Discover the secrets of your HP-41! Here is your intermediate-level tour through its inner workings. Learn about memory structure, the status registers, the byte grabber, synthetic programming, and microcode—the language of the HP-41's microprocessor. See examples of the intricate internal programming of the HP-41, the microcode that makes the HP-41 what it is.

Stock #41-355, Inside the HP-41, 256p softbound \$12.95

Computer Science on your HP-41 using the Advantage ROM

by Ed Keefe

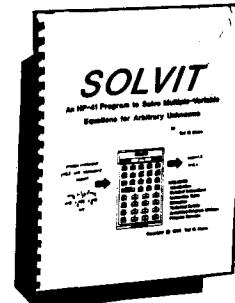


Turn your 41 into an HP-16C! Here's a powerful program in book form, with bar code as well as complete program listing—all done in Grapevine's easy-to-understand style.

Stock #41-485, Cmptr Sci on your HP-41, 183p wirebnd \$14.95

HP-41 Solvit

Ted Beers



Solve Multiple-Variable Equations for Arbitrary Unknowns on your HP-41. It's like TKISOLVER and other PC programs, or the HP-18C—you input your formula with any number of variables. Then assign known values and calculate the remaining unknown. Makes a custom menu for each equation.

Comes with instructions and examples, program listings and bar code. Requires HP-41CV, CX, or 41C with 2 Memory Modules, and Advantage Module.

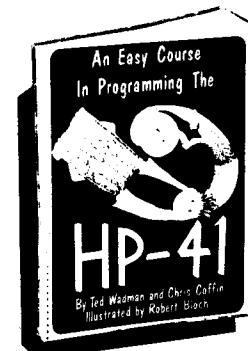
Stock #41-766 (HP-41 SOLVIT) \$29.95

Stock #41-766D (41-SOLVIT Pgm, 3 1/2" Disk only) \$19.95

Stock #41-766C (41-SOLVIT Pgm, Mag Cards only) \$19.95

An Easy Course in Programming the HP-41

by Wadman/Coffin



Beginners, look no further. Here is your book—straightforward and clear, brief and free of technobabble. This treatment is itself programmed, so if you have some experience, you are led quickly to the topic you need. Authors Ted Wadman and Chris Coffin are former HP employees, and they know their stuff—they also know how to make it easy and make it fun.

Stock #41-193, Easy Programming HP-41, 255p spiralbnd \$20.95

HP-41 Calculators

Soft/Bookware continued

Statics for Students Using your HP-41 Advantage

by Wadman/Coffin

Breeze through the hundreds of homework, test, and exam problems you encounter in a statics class—just use this book's program and your HP-41CV or CX and Advantage ROM.

Merely draw the picture for your calculator, inputting coordinates of pertinent points and known loads on the structure. Then you choose either to sum the known moments and forces about the origin, or to input the orientation of 3 unknown reactions and solve for their magnitudes—it's that easy!

You can solve the internal forces of a structure by the 'method of sections' with a few keystrokes—that's power! Yet you can quickly calculate simple things, too, like the supporting reactions of a cantilever beam.

Comes with program listings, bar code, and easy-to-take instructions. There's even a review of statics principles and the math.

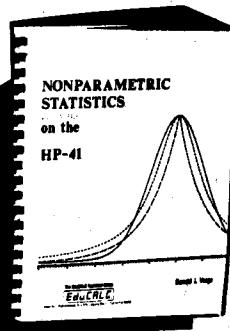
Stock #41-634, Statics Advantage, 80p softbound.....\$11.95



Nonparametric Statistics on the HP-41

by Don Vargo

Sale



ATTENTION behavioral, biological and physical scientists: if you're using these popular new methods with a stat pac on a big computer, you're in for a pleasant surprise! On your HP-41 these same tests become straight-forward and forgiving, and errors are easy to correct.

13 tests in all, for One Sample and Matched Observations, Two Samples' Location and Dispersion, Analysis of Variance, Goodness of Fit, and Independence. These programs have a common treatment here, with complete discussions and examples. The manual begins with an introduction to nonparametric methods and a brief review of elementary statistics. Requires an HP-41CV or HP-41C with quad memory module, and a familiarity with inferential statistics.

Stock #41-307, Nonparametric Stat, 166p softbound.....\$16.95
Stock #41-307BC (Bar Code for above).....\$9.95

\$9.95
\$16.95
\$9.95

\$7.95

User's Library Software Catalog for your HP-71/HP-41

The list of topics is enormous—from crop science to computer science, from payroll to marketing, plus every engineering speciality and every field of numerical math and statistics, and physics and chemistry, and social sciences. Many of these will work for you.

Stock #202B, User's Library Software Catalog\$9.95

Need Extra OWNER'S MANUALS?



Stock #41-90526, HP-41CV Owner's Man-Basic Oper.....\$10.00
Stock #41-90474, HP-41CX Owner's Handbook, Vol I\$10.00
Stock #41-90492, HP-41CX Owner's Handbook, Vol II.....\$15.00
Stock #41-701, Card Readers Owner's Handbook.....\$5.00
Stock #41-703, HP-82143A Prntr/Pltr Owner's Hndbk.....\$5.00
Stock #41-705, Optical Wand Owner's Handbook\$5.00
Stock #41-707, "Creating Your Own Bar Code" Man.....\$15.00
Stock #41-714, Ext Funct/Mem Mod Owner's Hndbk.....\$10.00
Stock #41-715, Time Mod Owner's Handbook\$15.00
Stock #41-90531, Operation in Detail (CV)\$14.95
Stock #41-876, Ext I/O Module Owner's Hndbk.....\$9.95
Stock #41-877, Plotter Module Owner's Hndbk\$26.95
Stock #41-2103, Infrared Printer Owner's Hndbk\$9.95

SOLUTION BOOKS For The HP-41 Only \$14.50 Each!



The solution books provide step-by-step keystroke listings for specific problems in specific disciplines. Although they are not as convenient as the Application Modules, they cover more programming details in many of the same areas. They are perfect for the person who is involved in specific programming solutions, program modifications, or as a reference program library. Available titles are:

Stock #90093, Antennas.....	\$14.50
Stock #90094, Business Statistics/Marketing/Sales.....	\$14.50
Stock #90145, Calendars	\$14.50
Stock #90100, Chemical Engineering	\$14.50
Stock #90102, Chemistry.....	\$14.50
Stock #90089, Civil Engineering	\$14.50
Stock #90092, Control Systems	\$14.50
Stock #90088, Electrical Engineering.....	\$14.50
Stock #90139, Fluid Dynamics & Hydraulics	\$14.50
Stock #90099, Games.....	\$14.50
Stock #90443, Games II	\$14.50
Stock #90084, Geometry.....	\$14.50
Stock #90140, Heating, Ventilating & Air Conditioning	\$14.50
Stock #90083, High-Level Math.....	\$14.50
Stock #90096, Home Construction Estimating	\$14.50
Stock #90086, Lending, Savings, & Leasing.....	\$14.50
Stock #90090, Mechanical Engineering.....	\$14.50
Stock #90144, Optometry II (Contact Lens)	\$14.50
Stock #90142, Physics	\$14.50
Stock #90136, Real Estate.....	\$14.50
Stock #90137, Small Business.....	\$14.50
Stock #90138, Solar Engineering	\$14.50
Stock #90441, Structural Design (cassette based)	\$35.00
Stock #90141, Surveying.....	\$14.50
Stock #90082, Test Statistics	\$14.50
Stock #90395, Time Module Solutions I	\$14.50

HP Manuals in Spanish



Stock #41-90514, HP-41CX Supp to CV O's Man (Sp)\$6.95
Stock #41-90530, HP-41CV Owner's Manual (Sp)\$19.95
Stock #41-90540, HP-41CV Quick Reference Guide (Sp)\$4.95



Entry Coupon

Free Calculator Drawing

Fill out and return this coupon to EduCALC before
December 31, 1989, to enter (no purchase necessary).

I use my calculator for:

Business Engineering Science Research
 School/Student Statistics Pleasure

I may consider the purchase of a Personal Data Bank
(Informator™) in the future.

Yes No

I want a free HP-10B HP-20S

Send it to me,

(street)

(city, state, zip)

(I agree to having my name announced if I win)

Christopher F. Nash of Ridgewood, NJ won a free HP-10B in our previous drawing. Enter now—it may be you this time!

HP-41 Calculators

Synthetic Programming

EduCALC does support Synthetic Programming

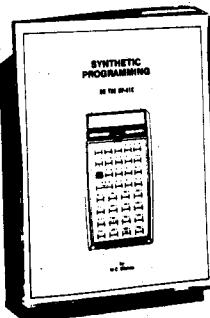
Synthetic Programming on the HP-41C

by William Wickes

Free
Quick Reference Card
#41-92C

The first and still the most complete and detailed book on the subject. Some of the techniques covered are: Addition of 21 'new' display characters; transformation of the alpha register into 4 additional registers, to use as a scratch pad which does not disturb data stored by other programs; enhanced user control over the 56 user and system flags, such as clearing all 56 simultaneously; SIZE finding automatically in less than 2 seconds; rapid alphabetizing of alpha data; alpha character string processing; 6 new TONE frequencies plus variation of TONE duration; improved key assignment control, like SF 14 or GTO IND X on a single key. A Card Reader or Wand would be very helpful.

Stock #41-92, Synthetic Prog, 96p softbound \$10.95



HP-41 Synthetic Quick Reference Guide

compiled by Jeremy Smith

Charts, Tables and Diagrams that you'll need for Synthetic Programming, collected from books and journal articles. This compilation is in compact, pocket form — it contains no explanations or examples, though references are given (e.g. to the books by Wickes, Jarett, and Reinstein).

Stock #41-147, Quick Reference Guide, 40p softbound \$5.95



Synthetic Programming Made Easy

by Keith Jarett

The best introduction to SP for the uninitiated. Highly readable, it uses all the latest simplified techniques, including 'byte grabbing' and 'byte loading', to make the learning fun and easier than ever before. Contains up-to-date programs, including Extended Functions and Time Module applications. Includes a plastic Quick Reference Card (41-92C) for Synthetic Programming. All the basics are here, with a full cross-reference to other sources. By Chapter 3 you will be able to key up synthetic programs from the HP User's Library or any other source. No peripherals or modules required, but a Card Reader, XFUNCTION Module, or Wand will be helpful. Bar code for all programs is included.

Stock #41-146, HP-41 Synthetic, 192p spiralbound \$16.95

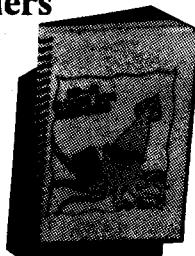


HP Programs on Your PC!

Write or Run any HP-41 program on your PC. You can even download programs to your HP-41. See CALC-41 (page 66) and Transfer-41 (page 55).

HP-41 MCODE for Beginners

by Ken Emery



Learn to be an Insider, step-by-step. Ideas and techniques are introduced one-at-a-time and illustrated with programs — so you'll quickly be able to set up the function address table and write a simple program which accesses the mainframe ROMs. All programs are fully documented and demystified.

Advanced programmers will find a complete explanation of the display, including the new one that accesses additional LCD characters and allows alteration of the contrast. There's also a first-time description of the memories HP uses for the display. Other new stuff includes an explanation of partial key sequencing as used by the ZEN and CCD ROMs.

M-Code programming on your HP-41 requires a special Quasi-ROM memory unit, such as the ERAMCO MLDL, the RAM expansion unit, or the CMT-100 Application Module Simulator.

Stock #41-374, Beginners MCODE, 192p wirebound \$24.95

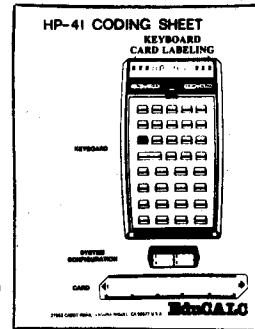
Read our mail from Georgia —

"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

HP-41 Coding Sheets

EduCALC

Sale



Use this professional tool to get professional results that look professional. With these two-sided, 11x17 inch forms you can jot it all down: There's systematic space for Keyboard Labeling, System Configuration, Card Labels, Function Assignments, 224 Program Steps with Comments. Plenty of room, and it's so easy with this form to organize everything and remind yourself of details.

Now you'll be able to compose programs faster, with fewer bugs. Your associates will be able to read and follow your programs, and they'll be impressed by this format.

Stock #41-572 [HP-41 Coding Sheets, 25 sheets] \$6.95

Want more?



- more memory—14,000 registers?
- faster execution—5x to 10x faster?
- bigger display—8 lines x 21 characters?
- better communications—serial, parallel, IL?

Then have a look at the MC-II—see page 64

HP-IL Interface Loop

Here's where you find...

Disc/Cassette Drives	55, 58
Interfaces	55
Accessories	57
Bookware	57
Programmers' Aids	57
Printers	58
Used Gear	59

Your HP-41, HP-71 or HP-75 can plug into any of the following peripherals if it is equipped with the HP-IL (Interface Loop).

LCD Display for HP-IL

CMT

Brand New

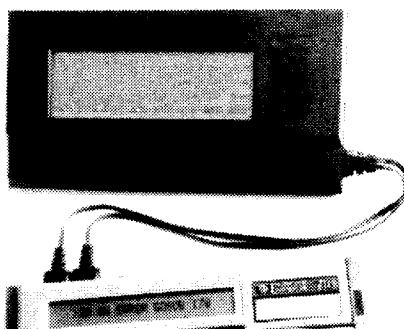
- 8 lines×40 characters with 50 line buffer
- High-contrast super-twist LCD technology
- 8-hour portable operation with 9 v alkaline battery

Use it with your existing HP-41, 71 or 75 programs—no rewriting necessary. Displays the full HP-71B character font set. 8 softkeys give you a controlled view of buffer contents.

It accept standard HP escape sequences compatible with HP-IL controllers. Additional escape sequences give you full cursor control, power to redefine character fonts and softkeys, and raster graphics.

You control viewing angle with a thumbwheel and a kickstand props the display up on your desk. Display area is 1.5×4.5 inches; case is 1.25×4×7.5 inches; the instrument weighs 12 oz without battery. Jack for external DC power; accepts rechargeable NiCd batteries.

Stock #IL-923 [HP-IL Display] List \$295 \$274.95



Disc/Cassette Drives

HP-IL RAM Disc Don't Miss This!

- 128K, 256K, or 512K
- truly rugged
- portable, hand-held
- RS-232 interface (opt.)



At last—super-big, super-fast memory for your HP-41C, HP-71B, HP-75D, HP-110 or Portable Plus (or IBM-PC with Link Card). Uses same command set as 82161 Cassette Drive and same extended commands as 9114 Disc Drive System.

About the size of the 41C, the RAM Disc is powered by a standard 9 v alkaline battery, and is engineered for low drain. There is an on-board lithium battery that keeps data intact for over five months (should the main source run down).

With RS-232 19 pin option, RAM Disc is same physical size but has functionality of 82164 HP-IL/RS-232 Interface.

Stock #IL-820A [128K RAM] List \$345 \$325.95
 Stock #IL-820B [128K RAM/RS-232] List \$445 \$415.95
 Stock #IL-820C [256K RAM] List \$495 \$449.95
 Stock #IL-820D [256K RAM/RS-232] List \$595 \$539.95
 Stock #IL-820E [512K RAM] List \$795 \$705.95
 Stock #IL-820F [512K RAM/RS-232] List \$895 \$795.95
 Stock #IL-820G [NiCd Battery Pack] \$15.00
 Stock #IL-820H [AC Adapter/Recharger] \$7.00
 Stock #IL-820R [RS-232 only] \$259.95

Digital

Cassette Drive

Sale
Save 60%
off list



The Digital Cassette Drive uses a digital-quality mini-cassette capable of storing up to 128K bytes of information. Files can be located by name easily on this cassette drive. Rewind time is under 30 seconds and read/write operations are executed at 9 inches per second. Search speed is 30 inches per second.

All tape movement is under microprocessor control. Buffer space is provided in the Drive for temporary storage of directory information to help minimize access time and tape motion. The HP82161 can locate files when under program control. It also features STANDBY mode, enabling an HP-IL controller to turn the Drive on or off remotely. This unique feature helps extend system battery life and allows for system operation in remote applications.

The Drive uses a two-motor system to move the tape past a two-track magnetic head specially designed to resist data alteration due to externally generated magnetic fields. Owner's Handbook included.

Stock #82161 [Digital Cassette Drive] List \$550 \$199.95
 Stock #82176A [Data Mini-Cassette] \$9.50
 Stock #82176-10 [10 Data Mini-Cassettes] \$88.95
 Stock #82177A [Cassette Labels, blank] \$14.95
 Stock #82167A [HP-IL Cable, 1/2 meter] \$5.95
 Stock #82167B [HP-IL Cable, 1 meter] \$7.95
 Stock #82167D [HP-IL Cable, 5 meters] \$9.95
 Stock #82033A [Rechargeable Battery Pack] \$24.95
 Stock #82059D [Recharger] \$18.95
 Stock #82037A [Reserve Power Pack] \$59.95

AC Power Supply

S.O.S.



Outputs a non-regulated 6-9 volts at up to 3 amps, connected to a standard Cinch-Jones receptacle. Several of our customers have reported complete success using this AC Unit to power their HP-9114 Disc Drive.

Use of a non-HP power source with the HP-9114 voids the HP Warranty—responsibility for such use lies with the user. AC Unit is warranted for 90 days to be free from defects of workmanship.

Stock #IL-480 [AC Power Supply Unit] \$69.95

Replacement Battery

Used in the rechargeable battery pack (88014A). The T9 Torx Tool is required to remove the cover; spade terminals connect to the battery.

Stock #LCR-6V2 [Battery] \$18.25

Stock #T9 [Disc Drive Torx Tool] \$5.00

Interfaces

TRANSFER/41 HP-41 to PC Communications Program

- Store your HP-41 programs/data on a PC disc
- Debug your HP-41 programs on a PC monitor
- Print your HP-41 output on a PC printer
- Key your HP-41 program into PC, then upload to your 41

Now you can have both—the portable convenience of your handheld HP-41, and the capacity and power of your PC!

Transfer/41 is PC software. It requires the HP-IL Interface Card (82973) in the PC, and the IL Interface (82160) for your calculator. With this you can freely translate up or down, to or from your PC. You can even insert your HP-41 output into a PC database or spreadsheet.

Stock #IL-902 (Transfer, 5 1/4") List \$45 \$39.95

Price
Reduced

HP-IL Interface Loop

Interfaces continued

LINK Plus

Southern Software



- Would you like a Big Monitor for your HP-41, 71 or 75?
- Want a Page Printer?
- How about a DISC DRIVE for storage?
- A Big Keyboard? A Mouse?

You can have it all—for less than the cost of one single peripheral! This program links your HP-41, 71 or 75 via HP-IL to an IBM PC/Compatible or Vectra, or an HP-150. (The IBM and HP-150 versions require the 82973 Portable/Desktop Link card which has the HP-IL capabilities.)

With Link you will never have to buy another gizmo for your handheld. It has four modes of operation which you choose from a menu on the PC (or set mode from the handheld). Three of the modes are the emulators for disc drive, printer and video disk do what you expect.

Mode 4 is not an emulator. In it the PC appears as device on the loop. The handheld can output data ('write') to any DOS file or device and it can also input data ('read') from it. It gives you access to any DOS file on your PC. You can read/write text files, binary or hexadecimal data, etc. LINK enables you to move the file pointer around so that you can add on to the end of an existing file, overwrite previous data, etc.

Manual gives detailed examples for each handheld for each mode plus a complete listing of responses to HP-IL messages. Choice of disc size.

Stock #S-785 (Link, 5 1/4") List \$85\$79.95
 Stock #S-785A (Link, 3 1/2" IBM) List \$85\$79.95
 Stock #S-786 (Link, 3 1/2" HP Format) List \$85\$79.95
 Stock #S-786L, LiteratureFree

PC/HPII Interface Card

Interloop

Half-size card has IL ports, 4 auxiliary optically-isolated ports (2 in, 2 out), and 1 TTL-compatible digital output. TTL port can control non-IL functions like relays, motors, solenoids, reading switches and status bits. Outputs can trigger power-up of HP-IL devices. Auxiliary ports provide fused +5V, +12V and -12V outputs at an edge-mounted D-15 connector.

Comes with DOS-resident driver software and programming examples in T-Pascal, T-Basic and GW-Basic.
 Stock #IL-150 [150PC/HPII Interface Card] List \$240\$224.95

HP-IL LINK Software Package

HP-IL Link allows MS-DOS PCs to:

- Input files from and output files to the HP-71.
- Act as a remote console for the HP-71.
- Input files from the HP-75 and HP-41.

HP-IL Link supports the following PCs:

- PC/Compatibles with HP 82973A HP-IL interface.
- HP-150 with HP 45643A Extended I/O Accessory.
- HP Portable and Portable PLUS computers.

The HP-71 must have an HP 82401 HP-IL Interface; the HP-75 must have a 00075-15001 I/O ROM; and the HP-41 must have an HP 82160A HP-IL Interface.

Includes one 5 1/4" disc, one 3 1/2" disc, and a "Getting Started" guide. (Full documentation is contained on disc.)

Stock #82477 (HP-IL Link, 5 1/4" & 3 1/2") List \$95\$84.95

HP-IL Interface Card for PC/Compatibles

HEWLETT PACKARD

Transfer spreadsheets or data between your PC and the HP-110 or use your PC as controller on the IL loop. This card goes in a slot inside your PC and enables the PC to be a peripheral device on a loop controlled by the 110; the PC may also be a loop controller using IL-peripheral devices (but not both at once).

Comes with Interface Software Disc containing Owner's Manual, 1 m HP-IL Cable and Service Card.

Stock #82973A [HP-IL/IBM PC, Card] List \$173\$144.95
 Stock #82167D [5 m HP-IL Cable]\$9.95



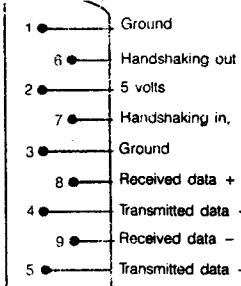
RS-232 Interface

HEWLETT PACKARD

The Most Popular Communications Interface is Now Available for Your HP-41, HP-71 or HP-75.

The HP-IL/RS-232C interface is fully asynchronous and bit-serial which lets your handheld talk to and work with other computers, terminals, peripherals, and modems. It features an input and output buffer, interface control logic, function keys and local or remote operating states. Extended I/O module required for most HP-41 applications.

Stock #82164 [RS-232 Interface] List \$295\$249.95



HP-IL to Video Interface (82163)

Sale
Save 10%



You can show sixteen 32 character lines on a VHF TV set or TV monitor—use it to develop your programs—make group presentations—all from your HP-41, 71 or 75.

Display white characters on black, or inverse. Memory holds 31 lines, so you can scroll them quickly. AC adapter included.

Stock #82163 [Video Interface] List \$225\$67.50

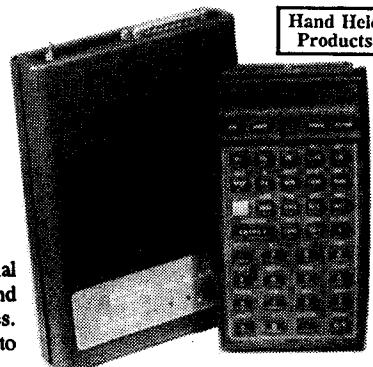
Hand Held Products

HP-IL/RS-232 Battery Powered Interface

15 to 20 working hours of portable power. Interface is physically identical to the HP 82164—and functionally completely compatible.

It also has some additional functional features, like extended transmit and receive buffers with 8K byte capacities. Uses standard HP wall transformer to recharge.

Stock #IL-842 [IL/RS-232 Batt Pwrdr Intrfce] List \$295\$269.95



Thank you for your order

HP-IL Interface Loop

Interfaces continued

HP-IL/RS-232 Interface

Firmware

Multichannel, Inexpensive

Two channel RS-232 input, two output; function set compatible with HP82164 HP-IL/RS-232 Interface; 110 to 28,800 baud rates; 500 byte transmit and receive buffers.

PORATABLE rechargeable-battery version available, as well as AC; 187 x 101 x 15 mm.

Stock #IL-759 [Multi 232/IL Inter, 120 VAC] List \$235 \$199.95

Stock #IL-760 [Multi 232/IL Inter, Batts] List \$295 \$249.95

See page 43 for HP-IL Module

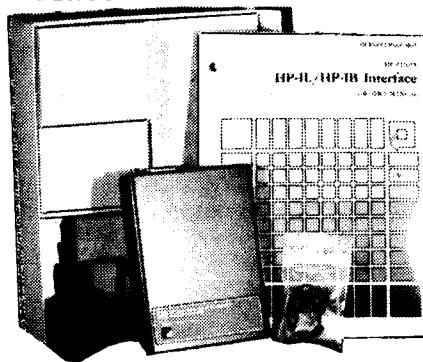
HP-IL/HP-IB Interface



HEWLETT

PACKARD

You can connect the HP-41, HP-71 or HP-75 to some of the most sophisticated computer equipment anywhere. This interface expands your handheld's control and communications capabilities by linking low-cost HP-IL systems with high-performance HP-IB (IEEE488) computers and lab equipment. It gives you the option of using over 120 HP-IB compatible devices, not to mention many more offered by other manufacturers.



Stock #82169 [HP-IL/HP-IB Interface] List \$395 \$334.95

Stock #82169L, HP-IL/HP-IB Interface Literature Free

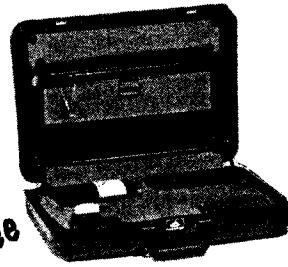
Accessories

Battle Cases

Carry your HP-IL System or a Peripheral safely

EduCALC

Brand New
Lifetime
Guarantee



- High tech—a double-wall shell of tough, solid, blow molded polyethylene
- Low cost—we've had it made to fit your gear, and we pass along the savings (no middleman)
- Hard-sided—so strong you can stand on it, resists abuse, dust and common chemicals

Handsome, a double-wall construction with trapped air layer insulates contents from shocks, vibration, temperature changes (it also provides flotation for your gear when the canoe turns over). Cannot be opened upside down by mistake. Lockable.

File folder installed inside lid for your papers and programs. Cubed foam interiors—3 layers of partially pre-cut 1-inch cubes that you pluck out by hand to fit your gear. Plus foam liner layer.

Systems Case is 17 1/4 x 12 x 3 inches inside—it will fit your HP-41, 71 or 75 system. Wires may be run under foam for in-case operation.

Peripherals Case is 17 x 11 1/2 x 4 1/4 inches inside—it will hold your ThinkJet printer or disc drive system, including the HP-41 or 71 and small accessories.

Big case is 17 x 11 1/2 x 5 1/2 inches inside—it will hold everything!

Stock #IL-2118 [Systems Case] \$59.95

Stock #IL-2119 [Peripherals Case] \$65.95

Stock #IL-2120 [Big Case] \$69.95

Bookware

Control the World

with HP-IL

by Gary Friedman

You can build and control an intelligent telephone autodialer/answering machine (complete with a speech synthesizer!), an automated darkroom controller, an ultrasonic distance measurement unit, a dissolve controller for two slide projectors, and more.

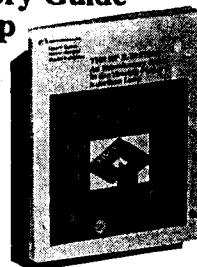
Photos, illustrations, and circuit diagrams are used throughout the book so all project instructions are easy to follow. The general-purpose building blocks and concepts behind them are so powerful that you'll find dozens of other uses for them.

Stock #IL-490, Control the World, 340p spiralbound \$24.95



The HP-IL System: An Introductory Guide to the Hewlett-Packard Interface Loop

by Kane/Harper/Ushijima



This is the definitive guide to the Hewlett-Packard Interface Loop. The Loop is a bit-serial interface that links the HP-41 or the HP Series 70 personal computers to a new generation of compact peripherals. Summaries of ball HP-IL remote messages and message sequences are also included.

Stock #IL-134, HP-IL System, 106p softbound \$17.95

Need Extra OWNER'S MANUALS?

Stock #IL-708, HP-IL Interface Mod Owner's Handbk \$10.00

Stock #IL-709, Digital Cassette Drive Owner's Hndbk \$10.00

Stock #IL-710, Therm Prntr/Pltr 82162 Owner's Hndbk \$10.00

Stock #IL-712, HP-IL/GPIO Interface Owner's Hndbk \$15.50

Stock #IL-482, HP-71 IL Owner's Manual \$25.00

Stock #IL-839D, RS-232 Owner's Handbook \$20.00

Stock #IL-479, HP-IL/HP-IB Owner's Handbook \$13.95

Programmers' Aids

HP-IL Converter Kit

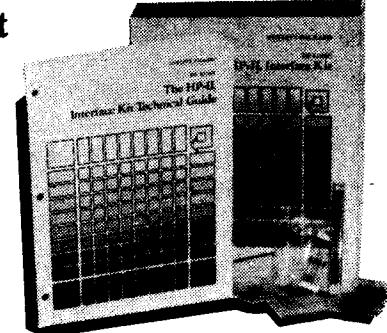


HEWLETT

PACKARD

The HP-IL Converter Kit provides the special components necessary for building HP-IL into your product. Included are: the HP-IL integrated circuits, the HP-IL transformer set, the HP-IL panel receptacle, complete component-level documentation, four complete sets of parts for prototype evaluation, and HP-IL development software for use on HP-41 and HP-71 systems. Does not include PC board.

Stock #82166C [Converter Kit] List \$395 \$349.95



HP-IL Converter Parts. The following parts may be ordered for the HP-IL converter on an individual basis as shown below. Standard capacitors and resistors are not listed. Parts are not returnable.

Stock #9100-4226 [Transformer, HP-IL] \$12.00

Stock #ILB3-0003 [IC, HP-IL] \$24.00

Stock #9100-1631 [Inductor, 56 mH] \$1.25

Stock #1810-0651 [Hybrid Chip] \$18.00

HP-IL Surplus Gear

Surplus HP Gear—Now you can afford a

- 9114B HP-IL 3½" Disc Drive
- 2225B HP-IL ThinkJet Printer
- HP-75D Portable Computer/RAM/Pod Package

Up to 90% OFF!

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.



Buy all three
for \$549.95

Stock #75 Spec.....\$549.95

 HEWLETT
PACKARD

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 Disc 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" Disc Drive—this is the current model, and it comes with everything: rechargeable batteries, recharger, disc, HP-IL cable, manual. See description of 9114B on facing page. List price new is \$695, so you buy this used unit at a whopping 57% discount!

Stock # 9114BU [Used 3½" Disc Drive].....\$279

IL ThinkJet Printer—this is the current production model that is so popular—see description of 2225B on facing page. List price new is \$495, so you can have fast, quiet IL printing now at this giant 60% discount!

Stock #2225BU [Used ThinkJet Printer].....\$179

Portable Computer/RAM/Pod 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 x 10 x 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 #HP-75DU [Used Computer Package]\$279

See pp 49, 70 for software

HP-71 Computer

Here's where you find...

HP-71B Peripherals	60
Accessories/Batteries	60
Memory/Special Modules	60
Application Pacs	61
Soft/Bookware	61
Programmers' Aids	62

HP-71 Peripherals

Multicase for the HP-71

CMT

Stock #71-922 [Multicase-128] List \$925 \$799.95

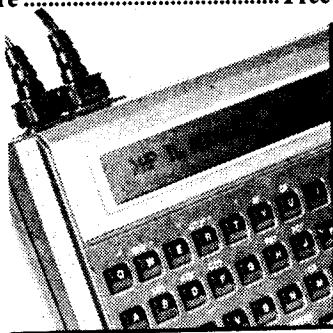
Stock #71-922L Multicase Literature Free

HP-IL Interface

 HEWLETT
PACKARD

Plugs inside port at upper left of HP-71 to create a system that can print, plot, store, retrieve, and display information. Control or read instruments, or speak to other computers. 5000 bytes/sec. Built-in ROM includes 46 separate commands. Interface to HP-IL, HP-IB, RS-232C, GPIO, or Series 80. Owner's Manual included.

Stock #82401 [71 HP-IL Interface] List \$125 \$105.95

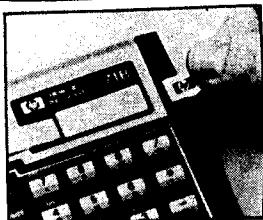


Card Reader

 HEWLETT
PACKARD

Installs easily into top of your HP-71—uses the same hand-pulled cards as the HP-75 for inexpensive off-line storage of data/programs. 1.3K bytes per card. 5 cards included.

Stock #82400 [71 Card Reader] List \$165 \$139.95



Accessories/Batteries

AC Adapter for the HP-71

Same stationary power source as for the HP-41 and HP-75. Does not recharge batteries in the HP-71.

Stock #82059 [Power Supply] \$18.95

HP-71 Torx Tool

This is all you need to 'open up' your HP-71B.

Stock #71-T6 [Torx Tool] \$6.00

Anti-Static Protector Bag

Comp-U-Bag

Zip out dirt and moisture, plus protect your instrument from loss of data or IC damage from accidental static electric discharge. Bag keeps keyboard feel, lasts for months. Easy access to ports, fits into leather case.

Stock #71-543S [Anti-Static Bag] List \$3.50 \$2.75

Waist-Belt Battery Pack

CMT

Stock #71-795 [71 Belt Pack] List \$75 \$69.95

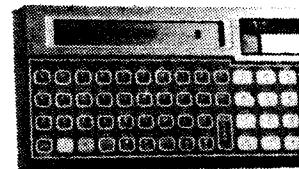
71 Touchpad

EduCALC

Ruggedize your HP-71 **Sale**
for hazardous duty

Keyboard overlay resists spills and spatters as well as dust and grit. It snaps neatly in place over your keyboard—has all key legends reproduced in their correct colors.

Stock #71-810 [71 Touchpad] List \$29 \$14.95 ~~\$23.95~~



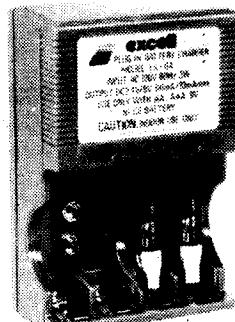
NiCd Multi-Charger for N, AA, AAA and 9-volt size batteries

Ledford Micro

Beat the cost of throw-away batteries—this universal unit recharges NiCds for the HP-71 (also HP-19B, 28S and HP-41B)—2 or 4 at a time, in only 5 hours.

Just think, in the thousands of hours of service from a NiCd (with 1000 recharges) you'll save hundreds of dollars over throwaways. 5 year/1000 recharge warranty.

Protected against polarity reversal. 71-739 includes sleeve-adapters.



Stock #71-739 [Charger, Adapters, 8 NiCd AAA-cells] \$35.95

Stock #41-738 [Charger; batteries/adapters not inc] \$13.95

Stock #NAAA [NiCd Battery for 71B] Requires 4 ea. \$3.10

Stock #41-836 [2 Sleeve Adapters for N-cells] \$2.50

HP-71B ACCESSORIES

Stock #82059 [Adapter] \$18.95
Stock #82707A [30 Blank Magnetic Cards] \$29.95
Stock #82462A [Overlay Kit, 5] \$11.95
Stock #82715A [Notebook Card Holder, 5] \$17.95
Stock #82167A [HP-IL Cable, ½ Meter] \$5.95
Stock #82167B [HP-IL Cable, 1 Meter] \$7.95
Stock #82167D [HP-IL Cable, 5 Meters] \$9.95
Stock #AAA [Alkaline Batt for HP-71] Requires 4 ea. \$0.89

Memory/Special Modules

RAM Memory Modules (Front Port)

Get more memory—just plug in up to 4 of these modules. (We can even hard-wire up to 8 of these at a modest additional charge.)

Stock #71-656 [32K Plug-in RAM] \$149.95

JPC ROM Module

PPC Paris

Created by the French user's group—more than 100 assembly-language functions that extend your HP-71 in natural ways.

You'll have useful memory tools like WHILE/END WHILE and an automatic indenter—daily conveniences like keyboard control of printer and executions at power-off. You get tight control over your HP-IL peripherals, like changing the font on your printer or getting room available in a mass-storage device. Interactive address-direction editor. Tools to use data in programs. Date calculation. Advanced math functions. Memory editor. Disassemble functions. Lex file merging. More. More. More.

200 page complete reference manual in English, plus pocket guide. Formidable, eh?

Stock #71-917 [JPC ROM Module] List \$185 \$173.95

HP-71 Computer

EPROMS (Front Port)

Store up to 32K or 64K of custom application programs. Unlike the RAM modules, these modules may be removed from your HP-71 front port without losing their memory, just like any HP Application Pac. They can be intentionally erased with ultraviolet light and reprogrammed many times by an EPROM burner or through our EPROM service. Better than Application Pacs, they are updatable. Programming charges are \$30 from your disc; duplicates are \$10.

Stock #71-672 [32K HP-71 EPROM] List \$115.....\$99.95
Stock #71-731 [64K HP-71 EPROM]\$155.95

HP-71 Memory Modules (Card Reader Port)

Have up to 128K in your HP-71B with one module. And, when you remove your module its contents are retained by the battery back-up. You can even combine 32K of RAM with 32K of OTP (One Time Programmable ROM) in model CR-32/32.

Stock #71-845A [CMT-CR-32R, 32K RAM] List \$160.....\$149.95
Stock #71-845B [CMT-CR-64R, 64K RAM] List \$295.....\$269.95
Stock #71-845C [CMT-CR-96R, 96K RAM] List \$395.....\$359.95
Stock #71-845D [CMT-CR-128R, 128K RAM] List \$495....\$445.95
Stock #71-845F [extra Battery]\$7.95

Economy UltraViolet EPROM Eraser

Stock #LD-925 [UV EPROM Eraser]\$59.95

Application Pacs

It's like having an IBM mainframe computer, programmed for your profession, right in your hand! Each pac comes with a ROM module (16 to 48K), which fits neatly inside your 71B, and complete documentation, written to HP's high standards.



Finance

Stock #82482 (71 Finance Module) List \$75.....\$69.95

Data Communications

Stock #82488 (71 DATACOMM Module) List \$95.....\$84.95

Math

Stock #82480 (71 Math Module) List \$95.....\$84.95

Surveying

Stock #82483 (71 Survey Module) List \$95\$84.95

Text Editor

Stock #82485 (71 Text Editor Module) List \$75.....\$69.95

Curve Fitting

Stock #82484 (71 Curve Fitting Module) List \$95\$84.95

Data Acquisition

Stock #82479 (71 Data Acquisition Module) List \$195.....\$169.95

Statistics

Stock #82489 (71 Statistics Module) List \$95\$84.95

AC Circuit Analysis

Stock #82481 (71 AC Circuit Module) List \$75.....\$69.95

HP-41 Translator

Stock #82490 (71/41 Translator Module) List \$95\$84.95

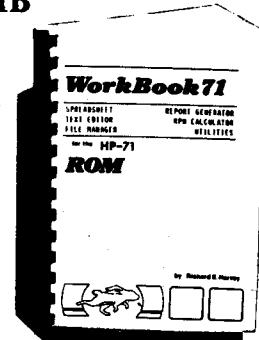
See HP-IL Section for more Peripherals:

Digital Cassette Drive, Thermal Printer/Plotter, Video Interface, Impact Printer, I/O Interface, Acoustic Coupler, RS-232 Interface, Video Monitor.

Soft/Bookware

WorkBook71 Module revision D
an Integrated Spreadsheet/Data Base/Text Editor/RPN Calculator...
all in 1 ROM for your HP-71B

Richard Harvey



- Text Editor
- Spreadsheet
- Better integration
- Two LEX files
- On-line help
- Text Formatter/RPN calculator
- Useful sub-programs including quick sort
- Common user interface for Spreadsheet, Text Editor and RPN Calculator.
- The functionality of HP-75 VisiCalc, the 71 Text Editor ROM and HP-41 Emulator plus other features missing from those ROMs (like data base utilities). If you could get the VisiCalc ROM for the 71 then those ROMs would cost \$325 (even at EduCALC prices!) and would take three ports.
- Efficient programs—Most modules start in under one second (the HP Text Editor, for example, takes over 4 seconds, Finance ROM over 3). Minimal memory used for variables—RPN calculator uses less than 300 bytes, spreadsheet uses 1K. There are no special key assignments or key files—it leaves your key assignments how you want them.
- No accessories needed

Stock #71-740 (WorkBook71, Module) List \$200\$169.95

Stock #71-740M, Owner's Manual Only*\$14.95

*Cost may be applied later to the purchase of the unit.

Similar program also available on disc.

Stock #71-612 (WorkBook71, Cassette) List \$80\$69.95

The Basic HP-71

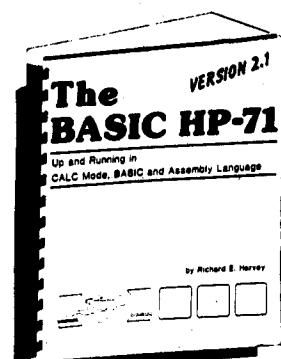
by Richard Harvey

Do you want the ability to write programs and to make better use of programs you already have? How about having a teacher who thinks programming is FUN?

This book has NO PREREQUISITES, yet it will give you all of HP-BASIC and get you started with the powerful techniques of Assembly Language (without your buying HP's 2 vol. *Internal Design Specifications*). There's also plenty of description of the 71 hardware, software and accessories, plus copious reference tables and charts.

This book is a MUST for every 71 user who wants to do more than use ROM programs as-is.

Stock #71-658, Basic HP-71, 160p spiralbound, List \$24\$19.95



OWNER'S MANUALS?

Stock #71-875A, HP-71 Owners Handbook	\$25.00
Stock #71-875B, HP-71 Reference Manual	\$30.00
Stock #71-875C, HP-71 Quick Reference Guide.....	\$5.00

Handheld Computers

Soft/Bookware continued

HP-71 BASIC Made Easy

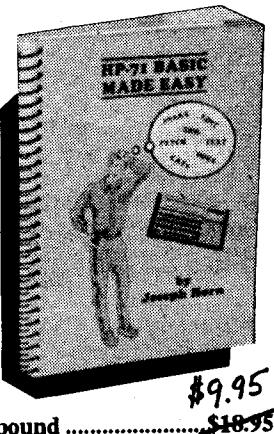
by Joseph Horn

Sale

What your owner's manual doesn't reveal! Learn how to use CALC mode and the command stack as efficiently as RPN.

Learn BASIC and operation system tricks including PEEKing and POKEing. Try some of the fascinating, fun and elegant BASIC application programs, or modify them to fit your needs. Use the alphabetical syntax guide for quick reference when you are programming. An excellent tutorial and an indispensable reference, this is the definitive work on BASIC and the HP-71 by the world's foremost expert on the subject.

Stock #71-354, HP-71 BASIC, 163p softbound\$18.95



Programmers' Aids

The HP-71B has 'open architecture'; here are all the tools you'll need to develop your own sophisticated programs or to write proprietary software for it.

Dictionary Management	
ALLOT	HERE
CONTEXT	HALLOT
CURRENT	PAD
DEFINITIONS	SHRINK,
FENCE	VOCABULARY
FORSET	
FORTH	
GROW	

System	
BODY	
OSTRICK	

Forth/Assembler ROM with Debugger for the HP-71B

hp HEWLETT PACKARD

Complete kit—Assembler Module and 3½" Debugger disk. Contains entire Forth/Assembly Development System of 82441 module as well.

FORTH{{floating point and string operations, 20 bit implementation, increase new vocabularies, sub. foreign error messages.

ASSEMBLER{{produce new Forth primitives, new BASIC keywords in LEX or BIN files.

Stock #82478A (FORTH Assem/Debug Mod) List \$175.....\$159.95

HP-71 Debugger upgrade for 82441 Forth/Assembler

hp HEWLETT PACKARD

Complete, easy-to-use debug software on 3½" disc—works to upgrade your 82441 FORTH/Assembly Development System Module.

Stock #82478-6 (71 Debugger, 3½" Disc) List \$80\$69.95

Software Developer's Handbook



Sale
While
they last

Provides timesaving ideas and guidelines for consistency among programs written for the HP-71. A 'cookbook' for applications programmers working with the HP-71. Recommended for independent software vendors.

Stock #71-90097M (Handbook with Mag Cards).....\$45.95

Stock #71-90097C (Handbook with Cassette)\$45.95

.....\$34.95

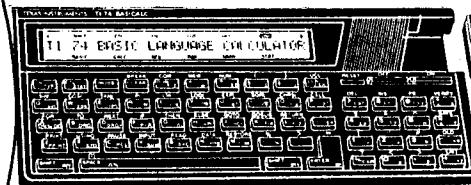
Read our mail from Bolivia

"I have been buying from EduCALC during several years . . .

Congratulations on your catalog it helps very much to keep up to date on new state of the art computers and calculators. Thank you very much." Johannes Broersma, Cochabamba

TI-74 Basicalc makes short work of homework.

TEXAS INSTRUMENTS



Custom Programming Available through EduCALC

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 sleek, compact TI-74 BASICALC are 113 BASIC commands. Along with 70 scientific functions, and 8K of RAM expandable with optional cartridge.

Easy . . . because it's flexible

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

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

Easy . . . because it's friendly

Calculator entries are as natural as writing them down—no reverse Polish notation. The typewriter-like keyboard has large, positive-action keys to prevent double entries. There are 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 #TI-74 [BASICALC] List \$135\$99.95

Stock #74-696 (Lrn PASCAL Cartridge) List \$50\$39.95

Stock #74-697 (Statistics Cartridge) List \$50\$39.95

Stock #74-698 (Math Cartridge) List \$50\$39.95

Stock #74-930 Chemical Eng Cartridge) List \$50\$39.95

Stock #74-871 (Finance Cartridge) List \$50\$39.95

Stock #TI-695 [8K RAM Cartridge] List \$50\$39.95

Stock #PC-324 [Portable Printer] List \$115\$89.95

Stock #AC-9201 [Adapter] List \$19\$16.95

Stock #TP-324 [Paper] List \$6\$4.95

Stock #CI-7 [Cassette Interface] List \$35\$26.95

Stock #PA-201 [AC Interface]\$6.95

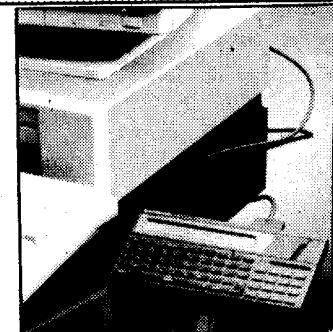
Stock #74-999 Technical Data Manual, 30p combbound\$9.95

Stock #74-LEARN TI-74 Learn Basic, 299p softbound\$5.95

Calculator batteries, stands & cases—see pp 13-15

PC-Interface Cable

Brand New



Download data from your TI-74 to a TI or IBM-compatible PC—manipulate the data with PC programs, save to hard disc, floppies or printed hard-copies.

High-speed parallel transfer through 4' cable; connector is 1.5x .75 inches.

Stock #U-2153 [PC-Interface Cable]\$54.95

Handheld Computers

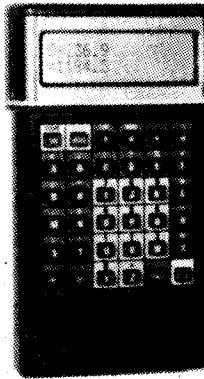
Organizer II

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

Psion

Free Module
Offer

A 'dream' portable, battery powered and calculator sized (5.6 x 3 x 1.1 inches), and the price is right! There is 32K of built-in ROM program plus up to 32K 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

You record your appointments in a ready-made diary by date and time, for the current year and for future years too. You can browse through the entries, or go straight to a specific date. It can be set to turn itself on and beep you up to an hour before an appointment—and show you who, where and when on the screen.

8 regular Alarm Clocks . . . Built-in

You can set up to eight alarms to ring at any time during the day or week. Can be programmed to ring at weekly, daily or hourly intervals as you wish—for example, for morning calls or weekly appointments.

Indexed Filing Cabinet . . . Built-in

Stock and customer records, supplier lists, book catalogs and any other reference information can be stored and entries selected quickly and easily on particular criteria.

Personal Secretary . . . Built-in

Stores all your vital personal information, names, addresses, telephone numbers and business contacts. Just type in a small detail as a clue and the powerful cross-referencing system will recall the item you require in a second and automatically scroll it across the screen.

Calculator . . . Built-in

Calculations are displayed on the screen as they are performed, so that entries can be checked and changed if you want to carry out several similar (what-if) calculations. It has twelve-digit calculation accuracy, ten memories and full mathematical and scientific functions.

Clock and Calendar . . . Built-in

Shows a weekday, date, month, year, hours, minutes, and seconds.

Programmability . . . Built-in

Contains an extremely powerful yet easy-to-use programming language (OPL) allowing simple and sophisticated programs to be written to meet your own or your company's particular requirements. The programs can be stored either in the built-in memory, or on an optional Datapak, for repeated use later.

Product Summary

ORGANISER II—MODEL CM: 32K ROM, with built-in diary, filing, calculator, clock and alarm functions; OPL programming language. Internal 8K RAM for your personal filing, diary appointments and programs. Optional Datapaks up to 64K each; the Comms-Link, program packs and the AC adaptor can be connected. 32 character, 2 line screen.

ORGANISER II—MODEL CM: All the functions and capabilities of Model CM with four times the internal memory (32K RAM) for your data. Additionally the XP allows optional 128K Datapaks, Barcode Readers and Magnetic Card Readers to be connected.

ORGANIZER II—MODEL LZ: every feature and function of Model XP plus large 80 character, 4 line screen and big 64K ROM. This ROM adds many new functions—Extended filing system, Week-at-a-View, Calendar, Notepad, Password protection, Data encryption, World times (400 cities), International dialing codes, Stopwatch and Timer.

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

DATAPAKS: Perform a role similar to floppy disks on desk top computers and up to two Datapaks plug directly into the back of 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 Solve, for your own problems or for its 250 preprogrammed formulas and conversions (no programming required). Built-ins include business, time value of money, math and stats, physics, electronics, chemistry, navigation.

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

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

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

The Spreadsheet Pack: a full-function spreadsheet, 26 columns x 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. (Model XP only.)

Standard Peripherals

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

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

For use with IBM PC/Compatibles, a 5 1/4" disk is provided with extra software. For communications to other PCs any standard communications package will suffice. Has D25 plug for PC or XT.

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

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

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

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

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

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

Stock #883A [Organiser II CM, 8K RAM]	\$179.95
Stock #883B [Organiser II XP, 32K RAM]	\$249.95
Stock #883W [Organiser II LZ, 32K RAM]	\$299.95
Stock #883X [Organiser II LZ64, 64K RAM]	\$399.95
Stock #883Y [Psion Portable Printer II, 9v or AC]	\$349.95
Stock #883C [16K Datapak]	\$29.95
Stock #883D [32K Datapak]	\$49.95
Stock #883E [64K Datapak]	\$89.95
Stock #883F [128K Datapak]	\$179.95
Stock #883V (Formulator)	\$49.95
Stock #883G (Finance Pack)	\$49.95
Stock #883H (Math Pack)	\$49.95
Stock #883J (Spreadsheet Pack)	\$79.95
Stock #883K (Spelling Checker)	\$49.95
Stock #883M [Comms Link, D25 plug]	\$99.95
Stock #883N [D25 to D9 adaptor plug for AT]	\$19.95
Stock #883P [AC Adaptor]	\$19.95
Stock #883R [Barcode Reader]	\$249.95
Stock #883S [Magnetic Card Reader]	\$199.95
Stock #LD-925 [UV EPROM Eraser]	\$59.95
Stock #9VA [9v alkaline battery, uses 1]	\$2.80
Stock #9VN [9v NiCd battery, uses 1]	\$8.95
Stock #883T [Formatter]	\$99.95
Stock #883U [32K RAMPAK]	\$89.95
Stock #883L, Organiser II Literature	Free

Calculator batteries, stands & cases—see pp 13-15

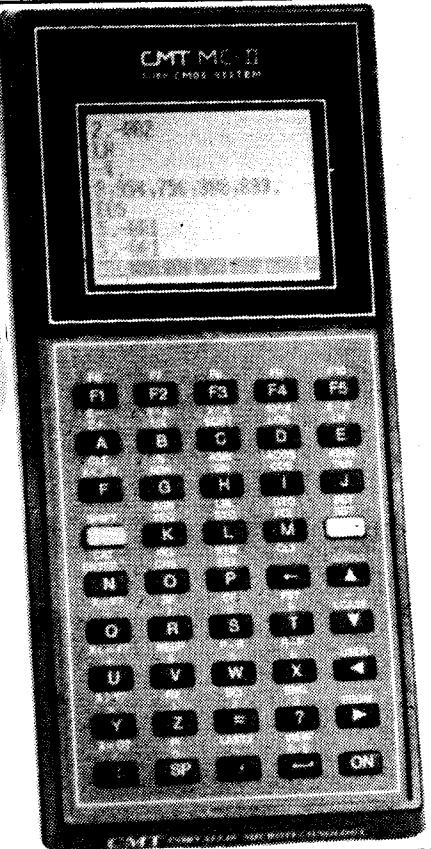
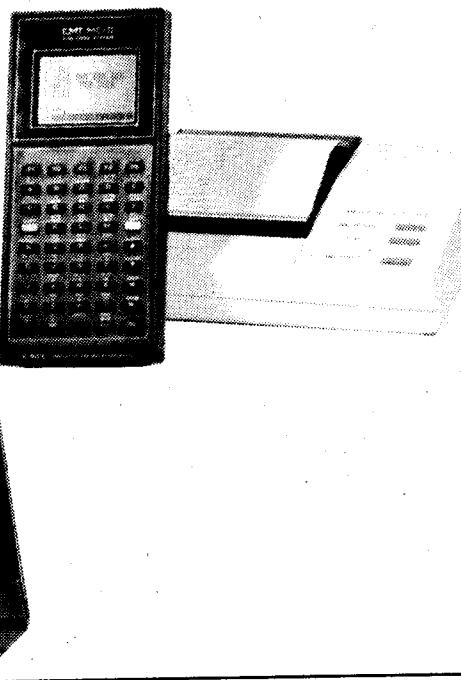
Handheld Computers

MC-II

Look—the first Handheld, Battery-powered Computer—
IBM PC Communicable and HP-41 Compatible!

CMT

Now with
optional BASIC!



■ **Handheld**—8x 3.8x 1.75 inches, and you hold it vertically for easy keying in the hand. Weighs just 22 oz.

■ **Battery-powered**—5 little AA batteries will serve an average user for a month before recharging.

■ **IBM Communicable in Several Ways**—the CPU in the MC-II is an 80C88, a power-thrifty version of the 8088 in the PC/XT, running at 5 MHz (a little faster than the PC).

It has 2 RS-232 Serial Communications Ports (selectable 300 to 19200 baud) so files can be up or downloaded from a PC, printer, field surveying instrument, or other serial device. The Kermit protocol is built into the MC-II so you can easily talk to larger computers, too.

The MC-II operating system supports a (optional) high-level programming language, Microsoft C 4.0 or Quick C, so code can be written and tested on your PC, then linked with the MC-II library and run with no modification (and over 20 times faster than in 71-BASIC).

You can also write code for the MC-II in 8088 assembly language.

HP-41CX Compatibility—your MC-II comes with a '41M-ulator' which has every function of the CX, so every one of the huge library of HP-41 programs will run on it, but 5 to 10 times faster.

Huge Memory—128K RAM is standard, and 4 ports allow expansion to a whopping 768K! 128K ROM built-in. Addresses 1 Meg.

Display—8 lines x 21 character LCD with 64x 128 dot graphics.

Peripherals—in addition to the serial ports and memory ports, there is a System Expansion Port so you can integrate a barcode reader, modem, measurement device, additional memory, etc.

Plug-in BASIC—optional module runs most GWBASIC or IBM BASIC programs without modification; data files are fully compatible. MC-BASIC has a few additional statements: to select I/O devices via an RS-232 port, to select HP-IL events to respond to, to select time and date to perform a routine. It also has a SLEEP command to conserve power while running a program until an event occurs and an OFF command giving a kind of 'suspended animation' until an event or an alarm awakens it. Truly portable, MC-BASIC can stand alone or can use your PC for full screen and keyboard support.

MBASE—an optional relational database management system, fully compat-

ible with dBASE III Plus. Comes complete in a plug-in ROM module, so you can key in data, or use a barcode reader or scanner to enter it, or transfer whole dBASE files from/to your PC. Several databases may be linked, too.

Comes with manual, 41M-ulator and AC Adapter/Recharger.

Stock #MC-II/41 [CMT Computer]	List \$750	\$699.95
Stock #MC-IIIM [128K RAM Module]	List \$160	\$143.95
Stock #MC-BASIC [BASIC Module]	List \$185	\$159.95
Stock #MC-MBASE [Database Module]	List \$185	\$159.95
Stock #MC41M [HP 41 Emulator]	List \$185	\$159.95
Stock #MC-COMKIT [COMKIT]	List \$35	\$31.95
Stock #MC-Printer [Seiko, DPU-411]	List \$245	\$216.95
Portable, 80 column compressed, thermal		
Stock #MC-PAPER [Seiko printer paper, 5 rolls]		\$21.95
Stock #MC-CABLE [2 meter cable, serial]		\$4.95
Stock #MC-BATPAK [NiCad battery]	List \$15	\$12.95
Stock #MC-RECHG [AC adaptor for NiCad]		\$12.95
Stock #MC-TR41 [Translator software, 41C to 41M]		\$39.95
Stock #MC-PTRAN [Translates uploaded 41]	List \$145	\$129.95
Stock #MC-MCIILIT, Literature		Free
Stock #MC-2104 [Hard Leather Case]	List \$50	\$42.95

Calculator batteries, stands & cases—see pp 13-15

MC-V Environmental Version

■ **Outdoors—surveying, construction, line-work**

■ **Inside the shop, factory, lab or mill**

Rugged and tough, with shock-resistant, rain-tight, dust-proof case. Built-in heater allows operation to -40°.

Includes 256K RAM and choice of MBASE, MC-BASIC, or 41M module (please state which). Weighs only 26 oz; does not fit MC-POD.

Stock #MC-V [CMT Environ. Computer] List \$1450 \$1349.95

LapTop Computers

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.

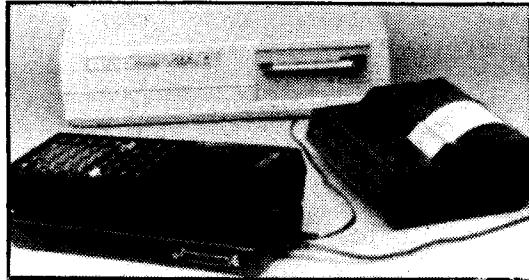
Written with considerable help from Psion, this complete guide begins by explaining how a computer works. It then covers the built-in applications—how to keep time, use alarms, file records, run a diary or do calculations.

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.

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

MC-II POD

CMT



Use all of your HP-IL peripherals with the MC-II! You get HP-IL and parallel printer interfaces as well as optional one megabyte memory.

The MC-POD enables your MC-II to control a wide range of peripherals including: Disk Drives, Printers, Displays, Internal and External RAM Disks, other MC-IIs, IEEE-488 Peripherals, and general purpose I/O Equipment.

The HP-IL interface is self-configuring. Just set up your loop and begin! The HP-IL loop can support a total of 931 peripherals, translate data at 220,000 baud, and uses very little energy. Error checking and damage protection is built into the machine.

Several new commands have been added: MD.X (make a directory), PWD.X (print the working directory), HP82163A.X and HPDISP.X, which drive the HP thermal printer and provide HP-IL display compatibility respectively.

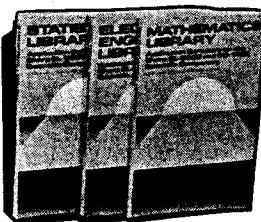
The MC-POD fits easily onto the expansion port on the back of your MC-II. Since it only adds another 11.5 ounces of weight and .9375 inches of girth, the MC-II with pod is still a true handheld that can be conveniently carried outside the office.

Stock #MC-POD [HP-IL/Parallel INT] List \$295 \$256.95

Application Software for the Sharp EL-5500 and PC-1403 Scientific Computer

by Swinnen/Thomas

Brand
New



■ Mathematics ■ Statistics

■ Electrical Engineering

Each of these books contains at least 23 tested, ready-to-run programs that are written specifically for the dialect of BASIC understood by the Sharp EL-5500/PC 1403 computer. (They will also run on the EL-5510, EL-5520, PC-1421 and PC-1460 computers.)

Simply type in the programs you want and you'll be up and running immediately!

Stock #U-2040, Mathematics Library, 122p softbound \$11.95

Stock #U-2041, Statistics Library, 109p softbound \$11.95

Stock #U-2042, Elec Engineering Library, 122p sftbnd \$11.95

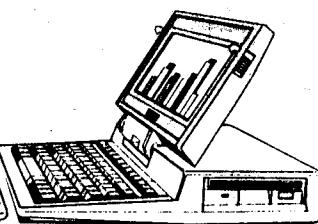
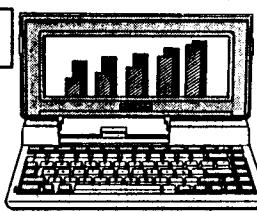
Sharp BASIC

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

Portable Personal Computer

Toshiba

New
lower
prices



T1000 PC Compatible—The smallest, lightest, portable PC at just 6.4 lbs. 80C88 running at 4.77 MHz, 720K, 3½" floppy drive. 512K RAM expandable to 640K, plus 256K ROM containing MS-DOS 2.11, clock/calendar and SideKick. Supertwist 80 characters x 25 line LCD display, compatible with CGA monitor. 6 interface ports.

Up to 5 hours on batteries, or plug into AC. 1 yr warranty. And what a price!

Stock #T1000 [Toshiba Portable Computer] List \$999 \$699

Stock #S-2043 [Internal 768K Memory Card] List \$399 \$349.95

Stock #S-2044 [Carrying Case, shoulder strap] List \$59 \$54.95

Stock #S-2105 [Automobile Power Adapter] List \$59 \$54.95

T1200 XT Compatible—Full desktop performance, yet only 10 lbs (1200 HB is under 11 lbs). 80C86 running at 9.54 or 4.77 MHz, real-time clock/calendar, 1 MB RAM. 1200 FB has 2 built-in 720KB 3½" drives; 1200 HB has 20 MB hard disc and one 3½" drive. Backlit supertwist LCD display, 80 characters x 25 lines; CGA compatible. Full-size 82-key keyboard with integrated numeric and function keypads. Serial and parallel ports, expansion slot, monitor ports.

Comes with MS-DOS 3.3, SideKick and disc-cache utilities, 100-240 v adapter/charger; 1 yr warranty.

Stock #T1200FB [Toshiba Portable Cmptr] List \$2199 \$1599

Stock #T1200HB [Toshiba Portable Cmptr] List \$2999 \$2149

Stock #S-2156 [Carry Case, shoulder strap] List \$59 \$54.95

T1600 AT Compatible—11.6 lbs of 12 MHz portable power. 80C286 running at 12 or 6 MHz, 80C287-12 coprocessor socket, real-time clock/calendar, 1 MB RAM (expandable to 3 or 5 MB without using the slot), 20 MB hard disc with 27 msec access, 1.44 MB 3½" drive. Detachable backlit supertwist LCD display, (EGA compatible) with 640x 400 pixels and 16 gray scales, 80 characters x 25 lines hi-res; EGA port.

Full-function 86-key keyboard with 12 function keys, 8 cursor control keys, integrated keypad and special Fn key. 1 parallel and two 9-pin series ports, expansion and modem slots, external drive and keypad ports.

Comes with MS-DOS 3.3 and disk cache utilities, 100-240 v adapter/charger; 1 yr warranty.

Stock #T1600 [Toshiba Portable Cmptr] List \$4999 \$3482

Stock #S-2154 [Internal 2MB memory card] List \$1299 \$899

Stock #S-2155 [Carry Case, shoulder strap] List \$89 \$79.95

We carry the larger Toshiba portable computers and printers as well—call us for your best price.

Xact 11C or 12C HP-compatible PC-calculator

Calctech

Pop-up PC-programs, functionally equivalent to the HP-11C, 12C or 16C handheld calculators. Display on your screen also emulates the calculator, in color.

Use this RAM-resident calculator by itself or right in the midst of another program—just touch your 'hot-key', make your calculation, then pop back into your other program. You can import data from the other program, then export results back into it. On-line HELP.

Includes a simulated tape display that can be viewed, stamped, printed and saved to disc. You can write programs if you wish; add comments, save to disc.

PC/compatible with DOS 2.0+; occupies 64K in RAM, plus another 64K while it's active.

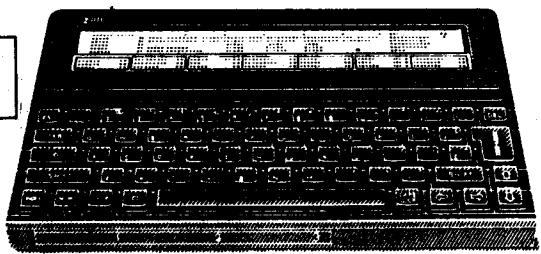
Stock #S-2049 (Xact 11C program, 5¼") List \$50 \$44.95

Stock #S-2050 (Xact 12C program, 5¼") List \$50 \$44.95

PC Solvers/Calculators

Z88

Cambridge Computers



The first truly portable computer—
from the legendary inventor Sir Clive Sinclair

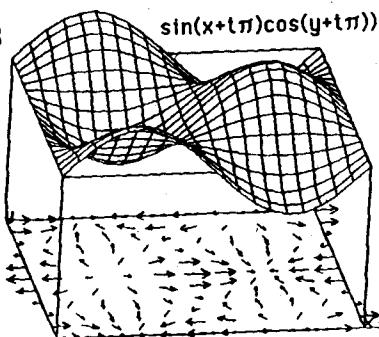
- Sheet-of-paper size—less than an inch thick—less than 2 lbs weight.
- 8 line x 106 character Supertwist LCD screen—QWERTY keyboard with silent, short-travel keys.
- Built-in ROM software—word processor, spreadsheet, database, calculator, diary, calendar, clock, alarm—all work together perfectly. Basic/Assembler language also in ROM.
- Communicates with your PC or Macintosh—import data or programs from your desktop, or dump your Z88 work to your desktop when you get home from a trip. Z88 converts its own files into Wordstar or Lotus 1-2-3 files. All you need is PC Link or Z88-to-Mac adapter sold below.
- 32K RAM built-in, with memory-pack expansion via its 3 ports—more RAM for computing power—EPROM for mass storage of data or programs (these work like floppy discs but they are smaller and they must be erased for re-use).
- 4 AA batteries give 20 hours of computing or 1 year on standby!

Stock #CC-Z88 [Portable Computer] List \$549 \$499.00
 Stock #S-964 [32K RAM Pack] List \$45 \$39.95
 Stock #S-965 [128K RAM Pack] List \$110 \$99.95
 Stock #S-966 [512K RAM Pack] List \$440 \$399.00
 Stock #S-967 [32K EPROM Pack] List \$45 \$39.95
 Stock #S-968 [128K EPROM Pack] List \$110 \$99.95
 Stock #LD-925 [UV EPROM Eraser] \$59.95
 Stock #S-969 [IBM PC Link II] List \$75 \$69.95
 Stock #S-2147 [Z88-to-Mac adapter] List \$129 \$119.95
 Stock #S-970 [Serial Printer Cable] List \$22 \$19.95
 Stock #S-971 [Parallel Printer Cable] List \$65 \$59.95
 Stock #S-972 [1200 BPS Modem] List \$259 \$229.95
 Stock #S-973 [Carrying Case] List \$25 \$22.95
 Stock #S-2013 [AC Adapter] \$5.95

Fields&Operators

Lascaux Graphics

BRAND
NEW



Now—display the action of 3D differential operators on surfaces, vector fields and integrals flows.

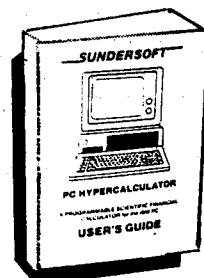
Interactive, and you can include a time parameter to generate a sequence of frames, and play them back for 'real time' animation.

2 and 3D surfaces and vector fields, dot and cross products, gradient, divergence, curl, Laplacian, time derivatives. View from any angle, see up to 6 layers (related functionally or differentially). For PC/Compatibles; also available for Macintosh.

Stock #S-2184 (Fields&Operators, 5 1/4") List \$60 \$54.95
 Stock #S-2185 (Fields&Operators, Mac Disc) List \$60 \$54.95

PC Hypercalculator 3.00

Sunderland Software



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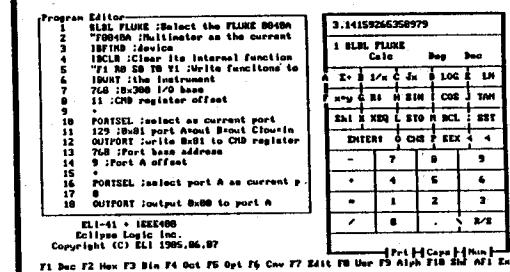
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Cross-reference utility

Tacit Logic



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Numerical Analysis

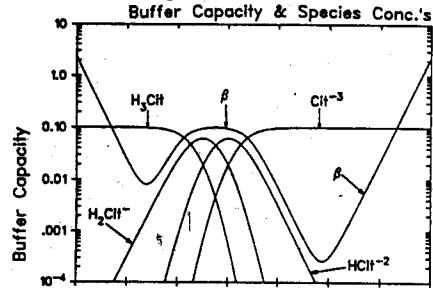
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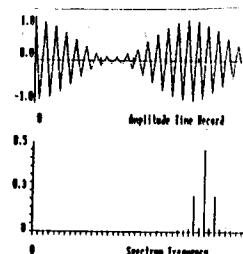
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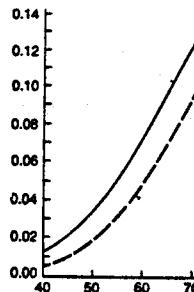
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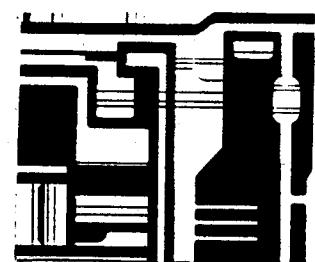
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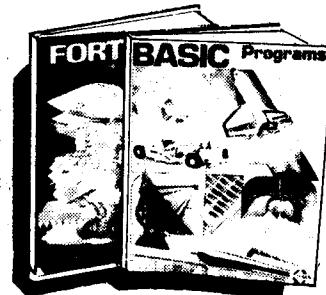


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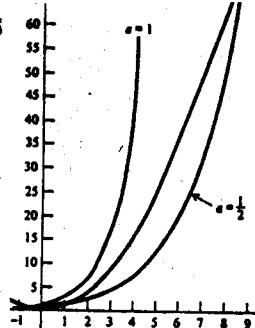
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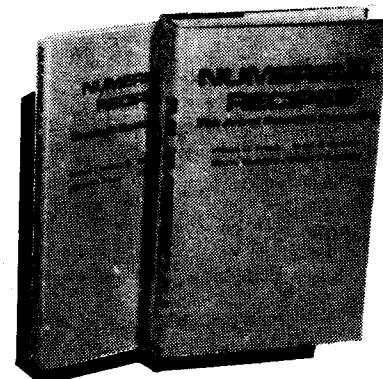
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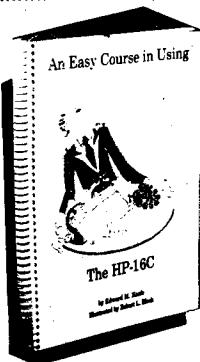
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8087/80287

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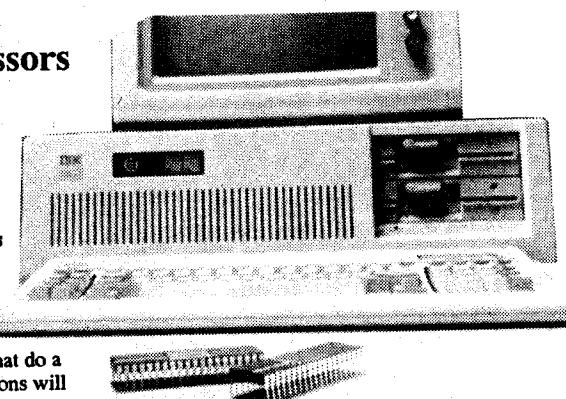
10 to 50 times faster floating-point arithmetic—right in your present

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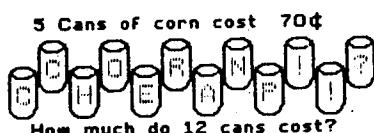
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$$5x = 840$$

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Mathematics

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by Martin Seyer

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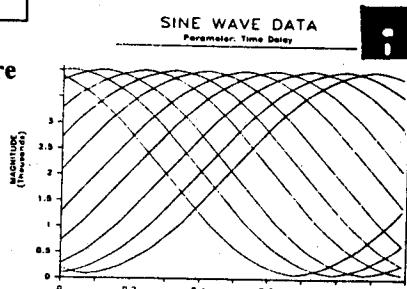
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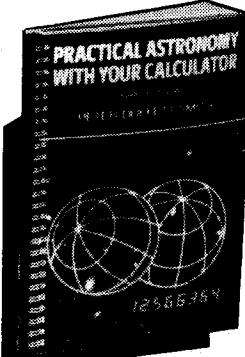
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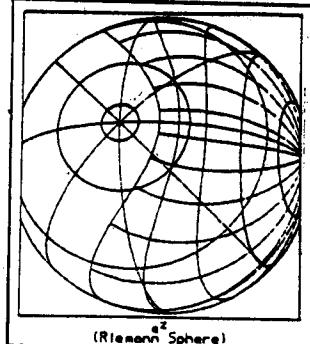
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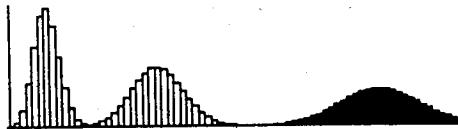
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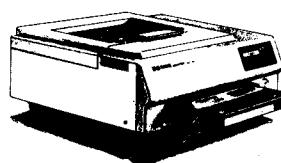


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\$34.95

INK-JET PRINT CARTRIDGES

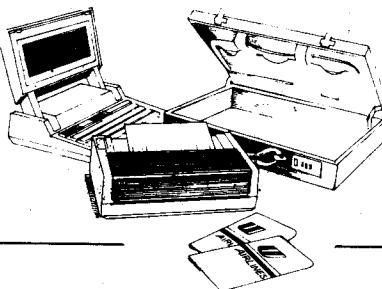


Printer Model Stock

2225 92261A
2227 51605B
2228 51605G
51605R
51604A

Color

Black
Blue
Green
Red
Black



Unit (Box)

1
1
1
1
1

List \$

\$13.00
\$13.00
\$13.00
\$10.95
\$11.00

EduCALC \$

\$10.95
\$10.95
\$10.95
\$10.95
\$9.95

INK-JET ACCESSORIES



Printer Model Stock # HP Part

ThinkJet 92250V Dust Cover

Unit (Box)

1

List \$

\$19.00

EduCALC \$

\$16.95

INK-JET & QUIETJET PRINTER PAPER

For the sharpest image and cleanest edges, use HP Jetpaper with HP Ink-Jet print cartridges. For your mailing lists, use Ink-Jet pressure-sensitive, 2 across labels designed by HP to run without jamming or tearing.

Printer Model Stock

Description

2225 51630A Fanfold, 20 lb. micro-perforated, 8.5 x 11 in.
2227 51630J Cut-sheet ink-jet printing paper. 20 lb. 8.5 x 11 in.
92261N Fanfold ink-jet printing paper. 20 lb. 8.5 x 11 in.
2228 51630L Pressure sensitive labels, 3 1/2 x 15/16 in., fanfold
Quietjet 51630B Fanfold ink-jet printing paper. micro 14 7/8 x 11 in.

Unit (Box)

500 sheets
500 sheets
2500 sheets
2000 labels
500 sheets

List \$

\$15.00
\$13.00
\$60.00
\$19.00
\$16.00

EduCALC \$

\$13.50
\$10.40
\$58.95
\$16.95
\$12.80

*See ThinkJet section for special shipping charges.

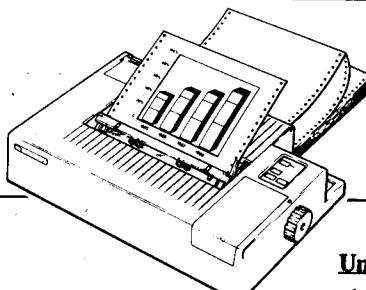
PAINTJET SUPPLIES



Stock # HP Part

51606A Black Print Cartridge
51606C Color Print Cartridge
51630P Fanfold Paper, 250 sheets
51630Q Film, 50 sheets
51630Y Cutsheet Paper, 250 sheets

Description



List \$

\$27.95
\$34.95
\$18.95
\$64.95
\$22.95

EduCALC \$

\$20.95
\$26.95
\$16.95
\$51.95
\$17.95

DESKJET ACCESSORIES



Printer Model Stock

Color

DeskJet 51608A Black

Unit

1

List \$

\$18.95

EduCALC \$

\$16.95

PRINTER RIBBONS



Printer Model Stock

Description

2631A/B or 92155A Ribbon cartridges, mobius loop, Black
2635A/B or 2639A 92155B Ribbon cartridges, used with 2631G, opt 200 only, Black
2932/33/34A or 92155L Ribbon cartridges, continuous feed, Black
82905A/B 92156A Ribbon cartridges, continuous feed, Black

Unit (Box)

3

List \$

\$60.00

EduCALC \$

\$53.95

Unit (Box)

3

List \$

\$65.00

EduCALC \$

\$59.95

Unit (Box)

3

List \$

\$72.00

EduCALC \$

\$59.95

Unit

2

List \$

\$22.00

EduCALC \$

\$18.95

DISCS

Printer Model Stock

Description

Series 80, 100, 200 92191A 3.5 in., 0.27 Mb, single-sided, auto-shutter unformatted
92192X 3.5 in., 0.71 Mb, double-sided, auto-shutter, unformatted
Series 82900 92190A 5.25 in., 0.27 Mb, double-sided unformatted
250, 300, 92195A 8 in., 1.2 Mb, double-sided, unformatted

Unit

10

List \$

\$39.00

EduCALC \$

\$29.95

Unit

10

List \$

\$49.00

EduCALC \$

\$36.95

Unit

10

List \$

\$32.00

EduCALC \$

\$24.95

Unit

10

List \$

\$61.00

EduCALC \$

\$48.95

HP-Supplies



DISCS - DATA TECH/BASF

Stock #	HP Part #	Description	Unit	List \$	EduCALC \$
1351	equivalent to 92192A	3.5 in., double-sided	1	\$4.00	\$1.99
1352	equivalent to 92190A	5.25 in., double-sided	1	\$2.00	\$0.99
1353		5.25 in., high density	1	\$3.00	\$1.49

DISC DRIVE HEAD CLEANING KITS Remove contaminants safely—tested and recommended by HP. Economy kits include 2 discs each (for 30 or more cleanings).

Stock #	HP Part #	Description	Unit	List \$	EduCALC \$
Z-2059		Economy Kit, 5 1/4"	1	\$17.95	\$15.95
Z-2060		Economy Kit, 3 1/2"	1	\$17.95	\$15.95



HEWLETT PACKARD

PENS

Pen and Plotter Compatibility (Use the guide below to select the pens best suited to your plotter.)

Plotter Model #	Fiber-tip pens		Disposable drafting pens Long body	Refillable drafting pens Short body	Rollerball pens Long body
	Paper	Transparency			
7220, 7221, 9872	◆	◆		◆	
7225	◆	◆			
ColorPro 7220, 7470, 7090	◆	◆		◆	
7475	◆	◆		◆	
7550, DraftMaster	◆	◆		◆	
DraftPro	◆			◆	
7580, 7585, 7586	◆			◆	

Fiber-tip Paper Pens		Color Selection Single-color packages (5 pens/package)	Fiber-Tip Transparency Pens	
Narrow line (0.3 mm)	Wide line (0.7 mm)		Narrow line (0.3 mm)	Wide line (0.6 mm)
Stock #	Stock #	Stock #	Stock #	Stock #
17825P	17826P	Black	17725T	17726T
17827P	17828P	Green	17727T	17728T
17829P	—	Aqua	17729T	
17831P	17832P	Blue	17731T	17732T
17833P	—	Violet	17733T	—
17835P	—	Brown	17735T	—
17837P	—	Yellow	17737T	—
17839P	—	Orange	17739T	—
17841P	17842P	Red	17741T	17742T
17843P	—	Red-Violet	17743T	—

Narrow line (0.3 mm)	Wide line (0.7 mm)	Multi-color packages		Narrow line (0.3 mm)	Wide line (0.6 mm)
		(1 pen in each color 5 pens/package)	Black, Red, Blue, Green, Yellow Blue, Black, Aqua, Green, Violet Orng, Red, Brn, Yellow, Red-Violet		
17845P	17846P			17745T	17746T
17847P	17848P			17747T	17748T
17849P	17850P			17749T	17750T

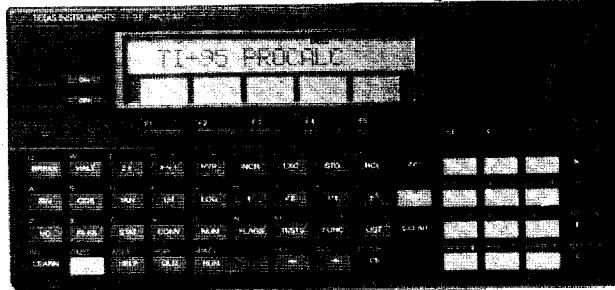
All fiber tip pens, List \$7.00 \$5.60 pkg.

Refillable Drafting Pens

Short Body Stock #	Long Body Stock #			List \$	EduCALC \$
	Ultra-Fine	0.18 mm	Ultra-Fine	0.18 mm	
9300-0955	Extra-Fine	0.25 mm	9260-0741	Extra-Fine	\$25.95
9300-0956	Fine	0.35 mm	9260-0588	Fine	\$23.95
9300-0957	Medium	0.50 mm	9260-0744	Medium	\$19.95
9300-0958	Broad	0.70 mm	9260-0579	Broad	\$19.95
9300-0959	Extra-Broad	1.00 mm	9260-0743	Extra-Broad	\$19.95
9300-0960	Body, Adapter, & Cap for above Points	\$14.95	07580-60025	Body, Adapter & Caps for above Points	\$7.95

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1	1	71-656	HP-71B 32K RAM MODULE		149.95
2	1	82400	HP-71B Card Reader		139.95
3	1	82480	HP-71B Math Module		84.95
4	1	71-658	BASIC HP-71		19.95
5					
6					
7					
8					

TOTAL OF ITEMS ABOVE

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6% TAX CALIF RESIDENTS

Card Number _____

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OPTIONAL SHIPPING

TOTAL ENCLOSED

Please verify your above
shipping address

Address of cardholder if not same as above

Telephone _____

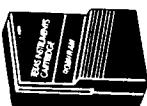


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TI-95 PROCALC

Everything is brand new, and it comes with TI's usual 1-year warranty. BUT there are three catches—I had to make some compromises to get these prices for you, so here's what you have to do—

- 1 Buy all of the calculators and cartridges you want, but you must order the cartridges with the calculator (not later).
- 2 You must buy at least one cartridge with each TI-95.
- 3 This is my super-sale of the year and I want you to be super-satisfied—but you must order quickly. I cannot guarantee this price after our stock sells out.

Giant Memory with 7200 program steps or 900 data registers or 6200 bytes of file space—in 8K of Constant Memory™.

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Stock #TI-695 [8K RAM Cartridge] List \$50	\$39.95
Stock #PC-324 [Portable Printer] List \$115	\$89.95
Stock #AC-9201 [Adapter] List \$19	\$16.95
Stock #TP-324 [Paper] List \$6	\$4.95
Stock #CI-7 [Cassette Interface] List \$35	\$26.95
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