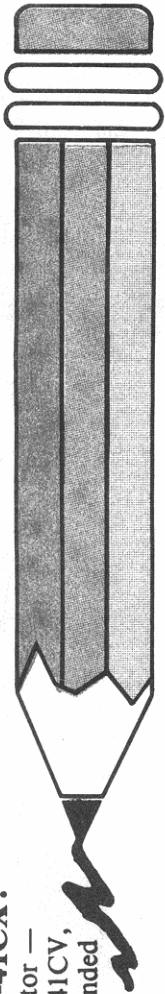


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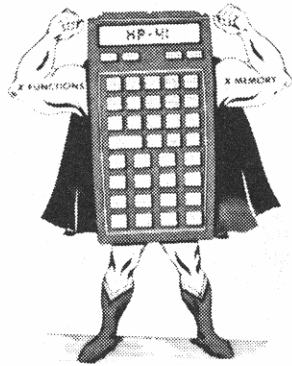
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PORTABLE COMPUTING



Just What is the NEW HP-41CX?

It's NOT A new kind of calculator —
Just a deluxe version of the HP-41CV,
with the Time Module and Extended
Functions module built right in.



issue# **18**

**COMPUTER BOOK
SECTION**

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**SPECIAL
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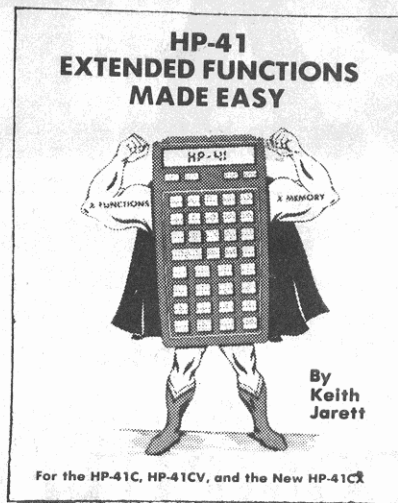
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NEW ARRIVALS!

HP-41 EXTENDED FUNCTIONS MADE EASY

by Keith Jarett

*New
Available
Nov. 1*



If you own an HP-41CX or an EXTENDED FUNCTIONS MODULE, YOU NEED THIS BOOK!

The Extended Functions/Memory module (built into the HP-41CX) is the most powerful module that Hewlett-Packard has ever made for the HP-41. However, the *Owner's Manual* barely scratches the surface of its capabilities. *HP-41 Extended Functions Made Easy* is the definitive book on the subject, by a leading expert on the HP-41 system. The book describes each function fully, giving examples and typical uses.

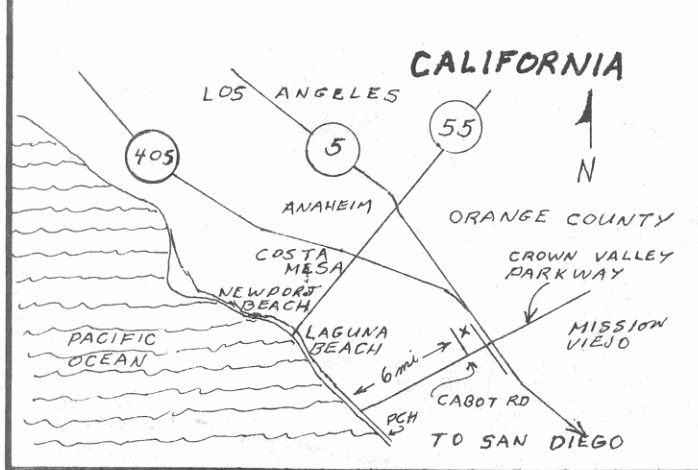
The book contains many powerful application programs: a mailing list manager, a text editor, a root finder, differentiator, integrator, and much more. Several utility programs make the extended functions more powerful, convenient, and fun to use. If you own an HP-41CX or an Extended Functions module, you need this book.

Stock #P-206, Synthetix, 240p, spiralbound \$16.95

PACK MORE POWER INTO YOUR EXTENDED FUNCTIONS!

VISIT OUR STORE!

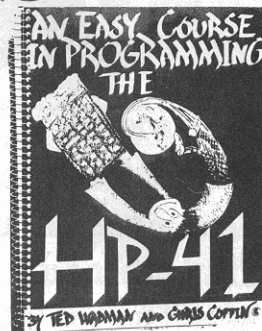
We're located in Orange County, California near the intersection of Interstate 5 and Crown Valley Parkway. (across the freeway from Mission Viejo Mall).



AN EASY COURSE IN PROGRAMMING THE HP-41

by Wadman/Coffin

New



Beginners, look no further. Here is your book—straight forward 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—and they also know how to make it easy and make it fun. Stock #P-193, Grapevine, 255p, spiralbound. \$15.95

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*For that
special
person*

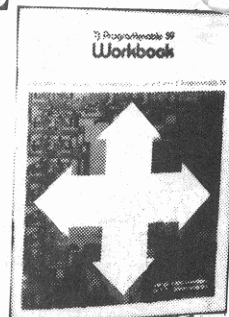
**GIFT CERTIFICATES
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The perfect gift for the person who has everything or the person who is impossible to shop for. Just use Stock # GIFT and give us the lucky person's name and address. We will send him a Gift Certificate (with no time limit) for the amount you have designated. If you would like us to mail it on a certain date, please specify.

TI PROGRAMMABLE 59 WORKBOOK

by TI Learning Center

Sale



This book leads you rapidly into familiarity with your calculator and into programming it — it's designed for use in training sessions. Twenty lessons, each with worked out problems and sample exercises with solutions cover Basic Functions through Beginning Programming, Intermediate Programming (labels and branching), Advanced Programming (indirect addressing, printing, modules). Requires TI-59 calculator.

Stock #P-192, TI, 101p, softbound, List Price \$5.95 ... \$2.95
Limited Quantity - Offer good while supplies last.

EduCALC

Winter, 1983

Hello!

Here is your guide to **BEST BUYS** in **PORTABLE COMPUTING** — **SOFTWARE, ACCESSORIES, BOOKS, and SUPPLIES**. I've made it **UNIQUE**; deep discounts, complete stocks, accurate descriptions, quick shipments, iron-clad guarantees. I intend to be your 1-stop source for portable calculating/computing needs.

FIND OUT everything that's available **NOW** for the calculator you have or the one you are considering buying.

This is your complete listing and stock of **HP** calculators and gear — and if what you want isn't listed, I will get it for you. Here's your chance to replace your battery pack or owner's manual — or get those accessories you've wanted.

FIND OUT everything that's available **NOW** for you to use in **YOUR PROFESSION OR HOBBY**

I have searched out every last book and software program, from every publisher anywhere, and listed them all here. They're **CLASSIFIED** so the ones you're interested in are all together — you can compare them side-by-side to choose (complete, honest descriptions will guide you).

FIND OUT NOW what's available in **PORTABLE COMPUTERS, software and programming**.

There's a confusing abundance of books and instruments available for computing — so I'll show you just the best. Here are the portable computers that deliver the most power, speed and flexibility per dollar. Here are programs that work with those instruments. And books that demystify them, so you can learn to use them.

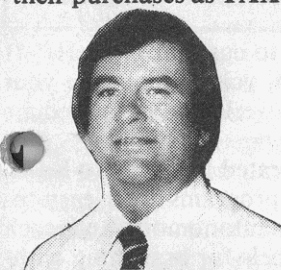
GO AHEAD AND ORDER.

Get anything you think will be useful to you — you may return any purchase in new condition within 15 days! This is my **NO-QUESTION-ASKED GUARANTEE**. I'll send you a full refund.

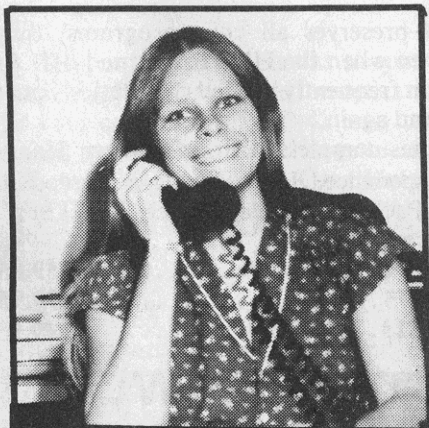
Many of our customers buy through their **COMPANY**. Others use their purchases as **TAX-DEDUCTIONS**.

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Jim Carter
Jim Carter, Manager



P.S. — remember I guarantee every item you order to be what you want.



Tracy



Edie



Morris



Frank

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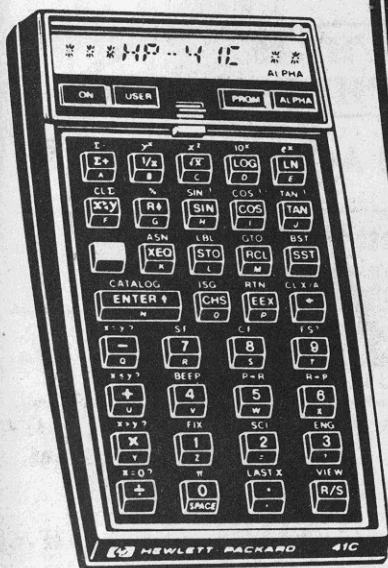
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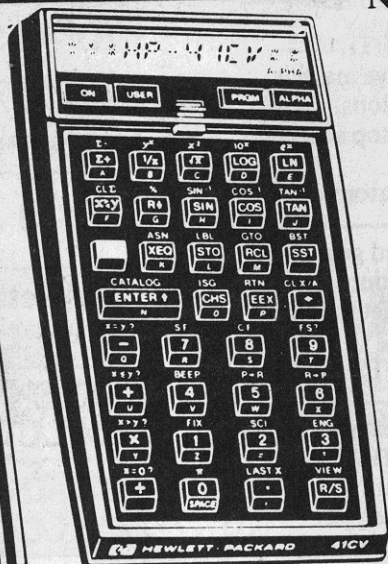
ORDER FORMS 48

HP-41 Systems

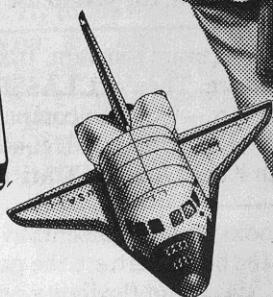
HP-41CX
Available
November 1, 1983



\$159.95
HP-41C



\$199.95
HP-41CV



\$249.95
HP-41CX

**ORDER BEFORE CHRISTMAS (1983) AND
YOU'LL GET A SPECIAL SURPRISE!**

Starting in November, 1983 you'll get a little something special in your HP-41C, HP-41CV or HP-41CX box. It's a card from HP good for 50% off on the Users' Library with over 7,000 programs (normally \$20.00) and \$45.00 of software from the library for only \$10.00. Supplies are limited but may be extended through January.

Why not get yourself the very best — the most powerful, the most user-friendly, the most rugged, the most flexible, the most in memory size, the most in available software, the most reliable — **THE MOST... FOR YOU!**

It's more than just the Cadillac of handheld calculator/computers. It's expandable as the heart of computational and instrument control systems. Cooperation between users, Hewlett-Packard and dealers has never been so intense. Over 6000 programs are available through the Users' Library that spans subjects from Business to Optometry. When you complement the power and capabilities of an HP-41 with peripherals, modules, HP-IL interfacing and instruments, you have a system that can solve your computational problems, plus your control and data-acquisition problems. And you solve your problems anywhere, through the added plus of HP-41 portability.

There are three series models to choose from. The HP-41C with 441 bytes of program memory or 63 storage registers. And, the HP-41CV with 2,233 bytes or 319 storage registers. These models are expandable to over 6,000 bytes of mass storage or 919 storage registers with memory modules and extension modules.

The newest model, HP-41CX, is like the CV but with the Time and Extended Functions/Memory Modules installed internally — this means you keep 2 ports free for further use while you get all time functions (alarm clock, calendar, stopwatch, etc.), a total of 3122 bytes or 446 registers, expandable to over 7,000 bytes or 1046 registers, plus more programming functions.

There are over 128 separate operations in the HP-41 function library and 58 functions on the keyboard. You can assign any standard function, any programs you've written, or

module programs to almost any key to customize the HP-41 according to your requirements. And, you can indicate your key assignments on a keyboard overlay for immediate reference.

With the HP-41 there is no complicated language to learn. The alpha capability lets you label programs with easy-to-remember names. Each program is autonomous and each can have up to 100 different local labels for branching within a program. The HP-41 also features up to 6 levels of sub-routines, 10 conditional tests, 56 internal flags, powerful loop control, indirect addressing, and both local and global branching.

Continuous Memory preserves all your programs, data and key assignments even when the HP-41 is turned off. As a result, you can program frequently-needed calculations once and call them up again and again.

The HP-41C/CV comes complete with an Owners Handbook, Guide for the Experienced User, Carrying Case, Batteries (typeN), Overlay Packet, Module Holder, and Users' Library subscription form.

Stock #HP-41C, List \$195 \$159.95
Stock #HP-41CV, List \$275 \$199.95
Stock #HP-41CX, List \$325 \$249.95



**HEWLETT
PACKARD**

PRINTER/PLOTTER (82143A)



The HP-41 Printer/Plotter is a whisper-quiet, battery-operable thermal printer which easily plugs into the HP-41. It gives you numeric, upper and lowercase alpha, double-wide characters, plotting capability and intensity control for optimum contrast and readability. It even allows you to define your own "special" characters. Portable and lightweight, the HP-41 Printer/Plotter operates on batteries. The batteries can be recharged with the 82059B AC recharger which is included with the product. The Printer/Plotter is a valuable aid in editing programs, checking long calculations, or presenting results in graphic form.

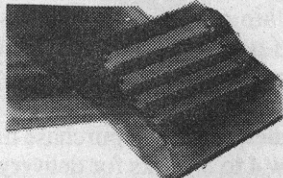
Stock #82143 (Printer), List \$385.....\$326.95

CARD READER (82104A)

The HP-41 Card Reader (and writer) is a valuable peripheral which lets you save programs and data on small magnetic cards. This "smart" Card Reader keeps track of cards as they are read and it even prompts you for the next card. A security feature permits a program to be run but not reviewed or altered through normal operations. An added bonus is that it also accepts program cards from the HP-67 and HP-97 calculators.

Stock #82104 (Card Reader), List \$195.....\$159.95

MAG CARD HOLDER



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 #A-524 (Magnetic Card Holder)\$2.50

TOUCHPAD (82200)

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.

Stock #82200 (Touchpad) List \$20\$18.95

HP-41 Systems Continued

OPTICAL WAND (82153A)



Card Reader

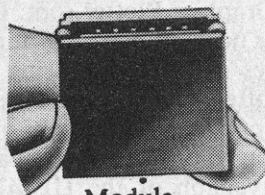
Optical Wand

**SPECIAL PRICE
GOOD THROUGH
DECEMBER 1983**

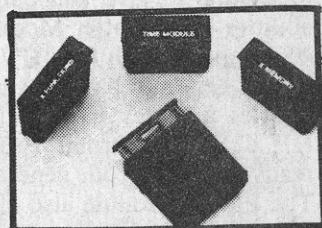
The Wand lets you load programs and data into the HP-41 quickly and easily. Plugged into one of the HP-41 ports, the Wand reads HP barcode from a printed page, translates the information into HP-41 programs and data, and then loads it into the HP-41. Barcode is an inexpensive distribution medium for programs and data.

Stock #82153 (Wand), List \$125\$99.95

HP-41 MODULES



Module



MEMORY MODULE (82106A)

HP-41C only

QUAD MEMORY MODULE (82170A) HP-41C only

The HP82106A Memory Modules can increase the HP-41C's memory. Plug in as many as you need, up to four, to increase data storage and program memory to 319 registers or 2,233 bytes. Each Memory Module contains 64 data registers.

Or, plug in one HP 82170A Quad Memory Module containing 256 registers or 1,792 bytes to give your HP-41C 319 registers. The three remaining ports in your HP-41C are free for peripherals or modules.

Stock #82106 (Memory Module), List \$30\$24.95

Stock #82170 (Quad Memory Module), List \$75\$63.75

HP-41 Systems Continued

EXTENDED MEMORY MODULE (82181A)

EXTENDED FUNCTIONS/ MEMORY MODULE (82180A)

One Extended Functions/Memory Module is required before you can use an Extended Memory Module. Some of the functions provided by the Extended Functions/Memory Module in addition to 889 bytes of memory are as follows: Clear all key assignments, Halt program execution until a key is pressed, Move main memory registers to a new location, Recall flag status data to the x-register, Value of an ALPHA-formatted number, Create data file, Delete record in working file, Copy data file to main memory registers, Purge file, Position file pointers and 36 more. By adding one HP82180A Extended Functions/Memory Module and two HP 82181A Extended Memory Modules, you can give your HP-41CV a maximum of 4,200 bytes of solid-state mass memory. The Extended Functions/Memory Module also increases the HP-41 programming function set.

Stock #82181 (Extended Memory Module-1666 bytes),
List \$75\$63.75

Stock #82180 (Extended Funct./Memory Module),
List \$75\$63.75

Hydraulics Pak (see page 24)

PLOTTER MODULE (82184A)

The 8KB Plotter Module fits easily into one of the HP-41's four ports to give you barcode 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 HP 82162A 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, HP-IL version of the HP7470A Graphics Plotter. This Module contains 52 plotter functions to help you design your own programs.

Stock #82184 (Plotter Module), List \$75.\$63.75

EXTENDED I/O MODULE (82183A)

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. The 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

See Application Pacs for more plug in power.

TIME MODULE (82182A)

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.

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

PPC ROM

The PPC ROM is a HP manufactured 8K Custom ROM. It is the most thoroughly documented ROM ever produced for the HP-41. It contains 122 programs of four groups — Math, Peripheral, Utilities, Synthetic Programming. It is the state-of-the-art. With it you can sort registers, alpha compare, operate on matrices, load program memory, assign any two bytes to any key, analyze bar codes, do multiple variable and precision plotting, calendar operations, count bytes, curve fit, take derivatives, do HP-12C type finance calculations, integrate, plus a hundred more tasks. It's the most useful, most powerful HP-41 ROM available.

Stock #A-518 (PPC ROM with 500p manual), List \$95 \$84.95

CARRYING CASE FOR YOUR HP-41 or HP-75 SYSTEM



This is a great new idea for the professional. Two high impact molded cases (12X18X3 inches each) are latched to provide individual cases for your Computer and Business requirements. Foam padding protects your HP-41 or HP-75. Typical dividers are provided in the other side. Cases separate easily for independent use. Allow 3 weeks for delivery.

Stock#A-527 (HP-41/HP-75 Carrying Case).....\$169.50

NOT ENOUGH HP-41 PORTS?

Combine two or three modules into one. It's not approved by HP but hundreds have been made with no problems. Typically an extended Functions and two Extended Memory modules are combined into one, but any two or three may be combined. A capacitor is added giving you 15 minutes to transfer modules and not loose data from an Extended Memory module. This service is available at \$25.00 for double modules and \$50.00 for triple modules. You may purchase modules or supply your own. Please allow 4 to 5 weeks for delivery. Non-returnable.

Stock #A-531 (Double or Triple Module Service) Please specify modules.

HP-IL TECHNICAL INFORMATION

HP-IL Interface Specification

Stock #82166-90017\$20.00

HP-IL Interface Kit Technical Guide

Stock #82166-90020\$ 9.00

HP-IL Integrated Circuit Users Manual

Stock #82166-90016\$15.00

HP-IL Development Module Owner's Manual

Stock #41-90449\$ 6.00

HP-IL CONVERTER (82166)

New



This component can be used with a microprocessor-based device to provide HP-IL communication capabilities. A device such as a printer, plotter or instrument becomes an HP-IL peripheral. Four primary functions are performed — HP-IL Interface, GPIO Interface, Transfer Buffer and Control Logic. A 5 volt DC supply voltage is required. A 34-pin connector with provision for appropriate connections to the host device (GPIO data buses, GPIO handshake line, HP-IL interfacing lines and indicator lines) is provided. Possible configurations include 8-bit parallel, 16 bit parallel and negative or positive true logic. The dimensions are 4.3 x 1.8 x .68 inches with the HP-IL connectors and 34-pin connector at opposite ends.

Interfacing the converter to a host device requires experience in digital electronics.

Stock #82166 (HP-IL Converter)\$115.95

Stock #82166LIT (Literature Only)N/C

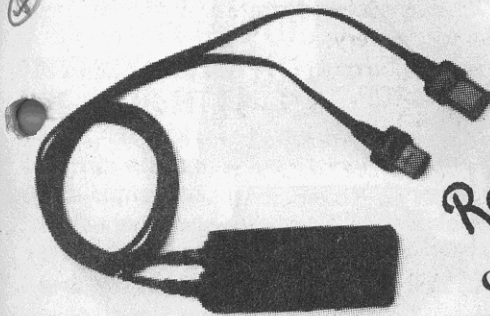
The following manuals are not supplied with the 82166.

Stock #82166-90002 (HP-IL Converter Tech Manual) \$10.00

Stock #82165-90012 (HP-IL Converter Manual Supplement)\$8.00

Components for the 82166 without the printed circuit board or case may be purchased using Stock #A-525. Call for current prices and availability.

HP-IL INTERFACE MODULE



Reduced price
GOOD THROUGH
DECEMBER 1983

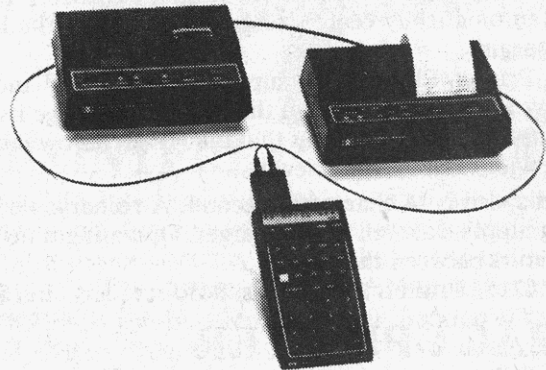
The HP-IL Interface Module plugs into any one of the four ports in the HP-41, connecting your handheld computer with an ever-growing family of HP-IL peripherals and instruments. The module gives your HP-41 control of up to 30 devices on the loop. There are three function sets supplied by the HP-IL Module: 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.

Stock #82160 (HP-IL Module), List \$125 \$99.95

HP-41/HP-75 Peripherals

HP-41 HP-75 PERIPHERALS

(These require the HP-IL Module.)



DIGITAL CASSETTE DRIVE (82161A)

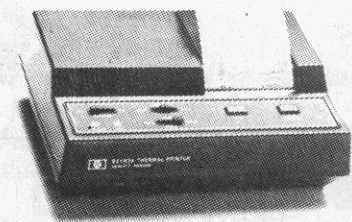


The Digital Cassette Drive uses a digital-quality mini-cassette, capable of storing up to 128K bytes of information. Files can be located by name easily on the cassette drive. Rewind time is under 30 seconds and read/write operations are executed at nine inches per second, with search speed at 30 inches 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 HP82161A 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.

Stock #82161 (Digital Cassette Drive), List \$450\$379.95

THERMAL PRINTER/ PLOTTER (82162A)



HP-41/HP-75 Peripherals Continued

This HP-IL compatible Printer/Plotter provides you with numeric, upper-and lowercase alpha, doublewide characters, and intensity control for optimum contrast and readability.

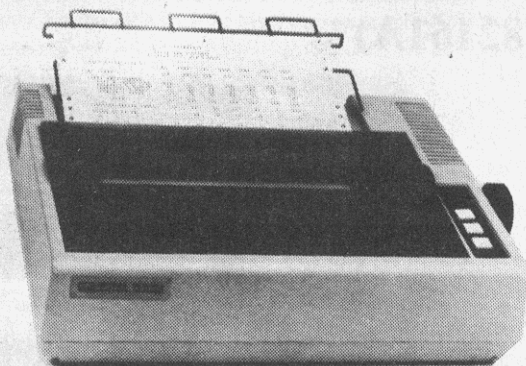
The chief enhancements of the HP82162A over the HP 82143A dedicated Printer/Plotter are a 101-character buffer for enhanced graphics capabilities and a FORMAT function which automatically centers or justifies copy to the left and right margins.

The Printer/Plotter also supports STANDBY mode, so that any HP-IL controller on the loop can manage its power consumption. HP-IL ensures that the HP82162A will be compatible with future HP-IL devices.

Print speed is 24 characters/second. A rechargeable battery pack is supplied as well as a recharger. Operating time is three to six hours between charges.

Stock #82162 Printer/Plotter, List \$450. \$379.95

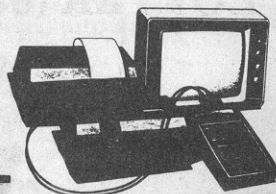
IMPACT PRINTER (82905B-OPT 248)



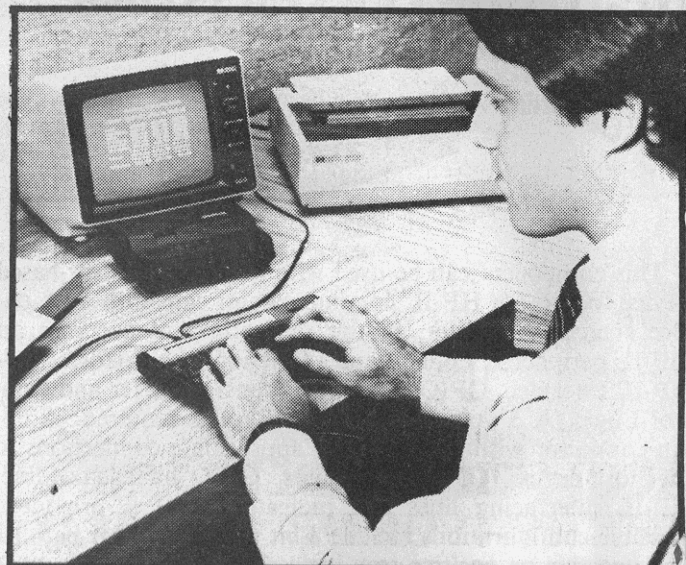
The 82905B Impact Printer is an 80-column, 9 x 9 dot-matrix printer which is compatible with HP-IL devices. The 82905B operates bidirectionally at 80 characters per second. In text mode, a logic-seeking feature finds the shortest route, permitting optimal printing throughout. The 9x9 dot-matrix character cells together with the impact printing technique provide fast, legible character formation including descenders (e.g. j, y, g, and q). Programmable line spacings, in increments of 1/72 inch, let you print superscripts and subscripts. A Roman character set allows you to print several languages.

The 82905B will print single or multipart forms (up to three parts, each with a maximum thickness of 0.3 mm). Its adjustable tractor-feed mechanism can be used with all types of computer forms with widths between 10.2 cm (4 in.) and 25.5 cm (10 in.). Programmable page-length lets you define page size and skip perforations. The power requirement is 120 volts AC.

Stock #82905 (Impact Printer), List \$795 \$629.95



hp HEWLETT
PACKARD



VIDEO INTERFACE (82198A)

Mountain Computer/Hewlett-Packard

This black box will transform the data stored in your HP-41 or HP-75 into a giant visual display on your TV monitor (or any television with an RF modulator). It takes advantage of your full screen by displaying up to 80 columns and 24 rows or it can be switched to 40 columns and 20 rows. The video format may be switched between NTSC (U.S., Canada, Japan) and PAL (Europe) standards. It uses the HP-IL for its connection and an AC adapter is provided for power. Characters can be displayed in inverse video (Black character on white background). The display contains a memory for scrolling additional lines onto the screen. Use your HP-IL video system as an aid to program development or for making presentations.

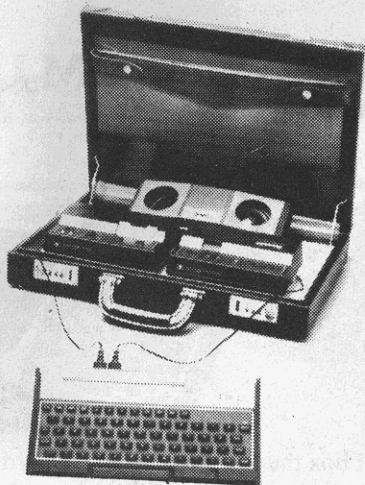
Stock #82198 (Video Interface) List \$325 \$289.95



HP-IL A/D INTERFACE From OCEAN SCIENTIFIC

WOW! A combined analog to digital converter and interface between any analog or chart recorder output and the HP Interface Loop — this upgrades existing instrumentation to digital output (3½ digit/2000 count/11 bit resolution) plus full data reduction. It uses the program and computing power of the HP-41, HP-75 or HP-85. Input ranges of 0-2 volt, 0-2 volt, or 0-20 volt. Data transfer to printer, cassette deck, etc. Use for Quality Control, Statistical Analysis, Clinical Assays. 4½ x 3¼ x 1¼ inches, 110 volts. Literature available on request: order Stock #OS-510 LIT.

Stock #OS-510 (A/D Interface), List \$450 \$399.95



ACOUSTIC COUPLER FOR THE HP-41 OR HP-75 (82168A)

NOW YOU CAN COMMUNICATE ON A WORLD-WIDE BASIS

With only voice quality telephone lines and a conventional telephone, this 300-baud modem lets you communicate with other computers in remote locations. It's battery operated and has all the little goodies such as STANDBY and automatic turn-off that you would expect from Hewlett-Packard.

For the HP-41 you'll need the Extended I/O module (82183).

For the HP-75 the Data Communications Pac software is the quickest and easiest way; however, you can also use the combination of the I/O Utilities Card (available in the HP-75 Utilities Solution Book, 75-13013) and Asynchronous Terminal Emulator Program which is available in the Acoustic Coupler Owner's Manual.

Stock #82168 (Acoustic Coupler), List \$495.....\$428.95

RS-232 INTERFACE (82164A)

THE MOST POPULAR COMMUNICATIONS INTERFACE IS NOW AVAILABLE FOR YOUR HP-41 OR HP-75.

The HP-IL/RS-232C interface is fully asynchronous and bit-serial which lets your HP-41 or HP-75 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.

Stock #82164 (RS-232 Interface), List \$295.....\$249.95

HP-IL/HP-1B INTERFACE (82169A)

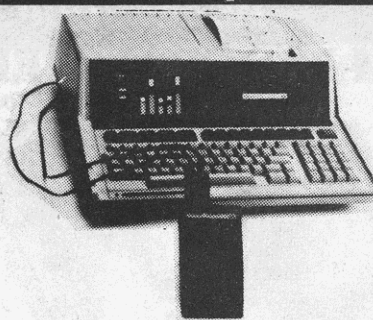
YOU CAN CONNECT THE HP-41 OR HP-75 TO SOME OF THE MOST SOPHISTICATED COMPUTER EQUIPMENT ANYWHERE

This interface expands the HP-41 or HP-75 control and communications capabilities by linking low-cost HP-IL systems with high-performance HP-1B (IEEE488) computers and lab equipment. It gives you the option of using over 120 HP-1B compatible devices, not to mention many more offered by other manufacturers.

Stock #82169 (HP-IL/HP-1B Interface), List \$395...\$334.95

Literature available, Stock #82169 LIT

HP-41/HP-75 Peripherals Continued

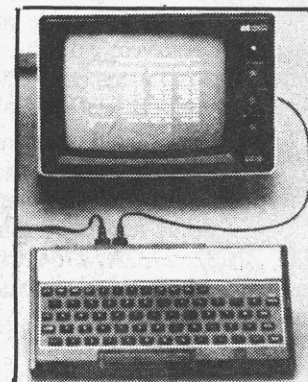


GPIO INTERFACE (82165A)

The GPIO Interface will enable you to use your HP-IL system to control equipment operating with parallel bus structures. This device contains the port buffering and a built-in power supply that operates from an HP standard ac adapter, (included with the 82165A). Potential applications for the 82165A include interfacing to computers for data collection, interfacing to specialized devices in production or lab environments, and interfacing to devices such as printers with parallel interfaces.

Stock #82165 (GPIO Interface), List \$295.....\$244.95

VIDEO MONITORS



Stock #82913 (12 inch Monitor), List \$325.....\$275

Stock #82912 (9 inch Monitor), List \$295.....\$249.95

NiCad BATTERIES FOR YOUR HP-41 (RECHARGEABLE)

Special Value



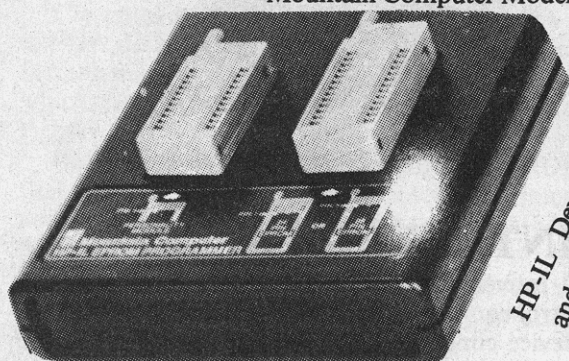
These batteries are full size, N cells with more than twice the capacity of the 1/2 size cells used in the standard pack. About 30 hours of continuous operation. The batteries come with a charger that provides for charging outside the calculator. It's a 110 VAC charger with a red LED which glows to indicate charging. Several sets of batteries may be charged using a single charger (4 batteries at a time). But we saved the best until last. The retail price of 4 rechargeable batteries and charger is only \$35.00. Additional sets of 4 NiCads are also available.

Stock #A-519 (4 NiCads + Charger), List \$35.....\$30.95

Stock #A-520 (4 NiCads).....\$10.95

Hewlett Packard Accessories EPROM PROGRAMMER

Mountain Computer Model #MC00506A



HP-IL Development Module
and Digital Cassette Drive
required when using on HP-41.

The HP-IL EPROM Programmer is a low cost development tool that can be used with a variety of computers that have the new HP-IL controller including the: Hewlett-Packard Series 80, Series 70, and HP-41C. EPROMs may be read, programmed and duplicated using the software provided with the unit.

EPROMs may be programmed to hold custom software for your special applications. Since EPROMs retain their contents when power is off, they provide an effective device for distributing copies of user developed software.

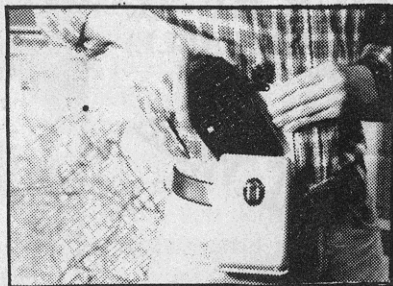
This lightweight compact unit can be powered by either its own DC power unit or a 9V DC battery.

The MC00506A will program virtually all current 24 and 28 pin EPROMs; simply plug in the appropriate personality module. Four personality modules (supplied with the unit) configure the unit for reading and writing to: 2716, 27C16, 2758, 2516, 6716, 2732, 27C32, 2732A, 2764, and 27128 EPROMs. An additional blank module is supplied, and can be configured, to meet the signal requirements of the 2532, 2564 or future devices as they become available.

Step by step instructions, program examples, and a detailed list of special and standard HP-IL commands are supplied in the owner's manual.

Stock #MC506 (EPROM Programmer), List \$450 ... \$419.95

LEATHER CALCULATOR CASES

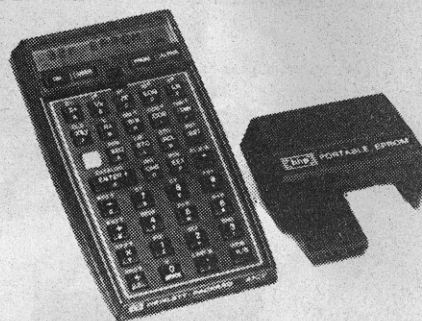


These hard leather calculator cases are made of high quality, 7 to 8 ounce cowhide. They are perfect for outdoor applications such as surveying, construction or a machine shop environment. A belt loop is available on the back of each case. They are light tan in color and give a very professional look outside or inside the office. Sizes are available for the HP-41 with or without a card reader, HP-10, 11, 12, 15, 16, or the TI-58/59.

Stock #A-511 (HP-41 without CR), List \$32 \$29.95
 Stock #A-512 (HP-41 with CR), List \$35 \$32.95
 Stock #A-513 (HP-10 Series), List \$32 \$29.95
 Stock #A-514 (TI-58/59), List \$33 \$29.95
 Stock #A-512P (HP-41 with Portextender) \$39.95

PORTABLE EPROM UNIT FROM Hand Held Products

New



An EPROM box the size and shape of a card reader! It plugs in just like the card reader (using only one port), but it stores up to 32K of EPROM storage. Now you can have huge application programs or giant amounts of fixed data at your fingertips.

Application areas include survey calculations, oil field computation, flight support, insurance analysis and other areas where small size and large memory requirements are essential. Programming for the EPROMs can be accomplished through the EPROM Programmer (Stock #MC-506) or for larger and faster programming requirements leased equipment from Hand Held Products is available.

For additional information call (704) 541-1380 or write for literature, Stock #A-526 LIT.

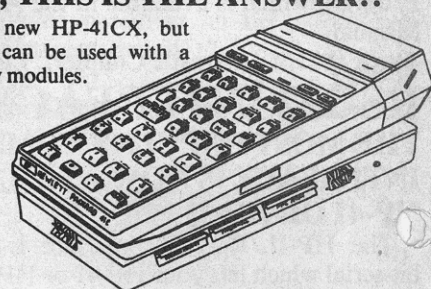
Stock #A-526 (HHP-PE, including 8K EPROM)

List \$349.00 Please allow 3 to 4 weeks for delivery \$335.95

HP-41 PORT-X-TENDER

**IF YOU'VE EVER RUN OUT OF PORTS FOR
YOUR HP-41C/CV, THIS IS THE ANSWER!!**

The Port-X-tender will fit the new HP-41CX, but unlike the HP-41C or CV, it can be used with a maximum of 2 extended memory modules.



The PORT-X-TENDER will accept ROM application and extension modules, RAM memory modules and peripheral devices. Six additional slots are provided which gives you a total of 10 positions for modules and/or devices. Four memory modules and two extended functions/memory modules may be used to greatly increase the memory size. If this isn't enough, you can add a second PORT-X-TENDER. The PORT-X-TENDER plugs into port #3. It's about the same size as the HP-41 with a card reader (7" x 3" x 5/8") and attaches to the bottom of the HP-41. Six of the seven slots may be switched on or off to select specific devices and/or modules in or out of the user's system. A 6-volt lithium battery in the extender preserves RAM memory (plugged into the extender slots) when disconnected from the calculator. A built-in battery tester checks both the battery in the extender and the cells in the calculator. The unit is complete with a 40 page owner's manual and a carrying case large enough for the PORT-X-TENDER, HP-41 and cardreader.

Stock #A-530 (Port-X-Tender), List \$150 \$139.95

HEWLETT / PACKARD SOFTWARE



SOLUTION BOOKS FOR THE HP-41

**ALL HP-41
SOLUTION BOOKS ARE
ONLY — \$11.95 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. The following is a list of the available areas that they cover.

Antennas	-----	Stock #	90093	11.95
Business Statistics/Marketing/Sales	-----		90094	11.95
Calendars	-----		90145	11.95
Cardiac/Pulmonary	-----		90097	11.95
Chemical Engineering	-----		90100	11.95
Chemistry	-----		90102	11.95
Civil Engineering	-----		90089	11.95
Control Systems	-----		90092	11.95
Electrical Engineering	-----		90088	11.95
Fluid Dynamics & Hydraulics	-----		90139	11.95
Games	-----		90099	11.95
Games II	-----		90443	11.95
Geometry	-----		90084	11.95
Heating, Ventilating & Air Conditioning	-----		90140	11.95
High-Level Math	-----		90083	11.95
Home Construction Estimating	-----		90096	11.95
Lending, Savings, & Leasing	-----		90086	11.95
Mechanical Engineering	-----		90090	11.95
Optometry I (General)	-----		90143	11.95
Optometry II (Contact Lens)	-----		90144	11.95
Physics	-----		90142	11.95
Real Estate	-----		90136	11.95
Small Business	-----		90137	11.95
Solar Engineering	-----		90138	11.95
Structural Design (cassette based)	-----		90441	35.00
Surveying	-----		90141	11.95
Test Statistics	-----		90082	11.95
Time Module Solutions I	-----		90395	11.95

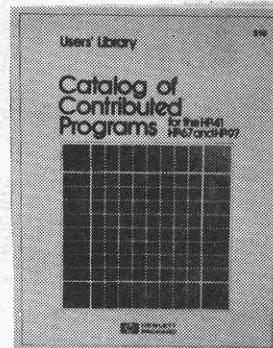
Hewlett Packard Accessories continued APPLICATION PACS FOR THE HP-41 (MODULES)

Each application module transforms the HP-41 into an answer machine for a particular discipline. These modules contain tremendous new power for your HP-41. Simply plug in the module and in some cases install a keyboard overlay and you have hundreds of hours of proven programming at your fingertips. Included with each module is a comprehensive manual. The following is a list of the available application pacs and the subject areas that they cover.

Application Pacs, HP-41	Stock #	
Auto/Start Duplication ROM	15042	\$29.95
Aviation Pac	15018	29.95
Circuit Analysis Pac	15006	29.95
HP-IL Development Module	15043	73.95
Financial Decisions Pac	15004	29.95
Games Pac	15022	29.95
Home Management Pac	15023	29.95
Machine Design Pac	15020	29.95
Mathematics Pac	15003	29.95
Navigation Pac	15017	44.95
Petroleum Fluids Pac	15039	73.95
Real Estate Pac	15016	44.95
Securities Pac	15026	29.95
Statistics Pac	15002	29.95
Stress Analysis Pac	15027	29.95
Structural Analysis Pac	15021	44.95
Surveying Pac	15005	29.95
Thermal Transport Science Pac	15019	29.95
Standard Applications	15001	29.95

CATALOG OF CONTRIBUTED PROGRAMS FOR HP-41-C and HP-67

*It was anders
becommer
Series 40 Catalog*
(1983 EDITION)



This is a catalog of programs contributed by users and Hewlett-Packard. It is a reference guide to hundreds of programs currently available from HP and comprises a wide variety of fields and applications such as Von Bertalanffy Growth Curve, Obstetrical Ultrasound, Digoxin Dose Calculation and Backgammon Probability Tables. The actual programs may be ordered from HP for about \$6.00 and include magnetic cards, complete documentation (usually 6 or 7 pages), plus bar code for HP-41C programs. This 1983 edition will be the last complete single volume to be published.

Stock #H-202, 185p, softbound\$9.95


CALCULATOR & HAND HELD COMPUTER ACCESSORIES


STOCK NUMBERS AND PRICES

 HEWLETT
PACKARD

**HEWLETT
PACKARD**

SUPPLIES

 HEWLETT PACKARD		Supplies													
		Portable Computer	Card Reader 820104A	HP-41C/ CV	Printer 82143A	Cassette Drive 82161A	Printer/ Plotter 82162A	Video Interface 82163A GPIO 82165A	HP-31E HP-32E HP-33 E/C HP-34C HP-37E HP-38 E/C	HP-35A HP-45A HP-55A HP-70A HP-80A	HP-65A HP-67A	HP-97A	HP-21A HP-22A HP-25A/C HP-27A HP-29C		
					82045A \$7.95		82045A \$7.95						82045A \$7.95		
					82175A \$9.95		82175A \$9.95						82175A \$9.95		
1. Thermal Paper, blue, 6 rolls															
2. Thermal Paper, black, 6 rolls															
3. Magnetic Cards, 40 (30/HP-75)		82707A \$24.95	13141 \$19.95										13141 \$19.95	13141 \$19.95	
4. Magnetic Cards, 120 (100/HP-75)		82708A \$69.95	13143 \$49.95										13143 \$49.95	13143 \$49.95	
5. Overlay Kit		82710A \$9.95		82152A \$9.95											
6. Blank Overlays, 5		82717-5 \$9.95		82172-5 \$6.50											
7. Blank Overlays, 50		82717A \$89.95		82172A \$54.95											
8. Data Mini Cassettes					82176A \$9.50										
					(10 pack - \$88.95)										
9. HP-IL Cable, 1/2 meter					82167A \$5.95	82167A \$5.95	82167A \$5.95								
10. HP-IL Cable, 1 meter					82167B \$7.95	82167B \$7.95	82167B \$7.95								
11. HP-IL Cable, 5 meters					82167D \$9.95	82167D \$9.95	82167D \$9.95								
12. HP-41 Touchpad		82200A \$18.95													
HARDWARE															
13. Rechargeable Battery Pack		82001B \$14.95		82120A \$34.95											
14. Rechargeable Batteries					82033A \$24.95	82033A \$24.95	82033A \$24.95	82109A \$11.95		82001B \$14.95	82001B \$14.95	82033A \$24.95	82019B \$11.95		
15. Recharger		82059D \$12.50		82059D \$12.50	82059D \$12.50	82059D \$12.50	82059D \$12.50	82059D \$12.50	82087D \$12.50	82002A \$34.95	82002A \$34.95	82059B \$12.50	82041A \$14.95		
16. Reserve Power Pack		82004A \$39.95			82037A \$59.95	82037A \$59.95	82037A \$59.95	82103A \$29.95		82004A \$39.95	82004A \$39.95	82037A \$59.95	82028B \$29.95		
17. Soft Vinyl Case		82111A \$9.95							82110A \$4.95	82053A \$9.95	82053A \$9.95	82035A \$11.95	82027A \$7.95		





Scientific Calculators

HERE'S YOUR NEW CALCULATOR

Need Another Calculator? Get the VERY BEST — rugged and dependable, with user-friendly power and thoughtful design — an up-to-the minute handheld calculator made by Hewlett-Packard, the inventor of advanced calculators, the HP-35 in 1972, and leader ever since.

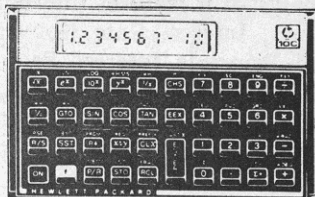
Each model features RPN Logic (the hallmark of HP calculators) and Continuous Memory. Its advanced design includes horizontal keyboard format, 10-digit LCD display, diagnostic self-tests, automatic shut-off, and long-life disposable battery.

Your new calculator comes to you in a box with • Black Vinyl Case • Padded Anti-static Bag • Owner's Handbook • Registration Card • Service Card

A BIG PLUS - You can get Application's Guides, Handbooks, and Solutions Books focussed on specific fields.

HP-10C PROGRAMMABLE SCIENTIFIC/STATISTICAL

Power for Professionals, Delight for Students



MATH: Log/Exp, Trig; Register Arithmetic, with up to 10 Data Registers; Factorials

CONVERSIONS: Rectangular to Polar; Decimal Angle to hr/min/sec; Degrees to Radians

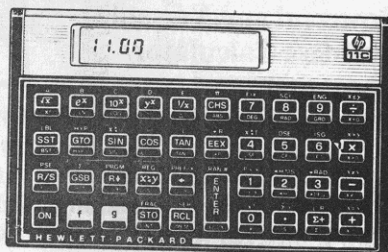
STATISTICS: Summations; 2-Variable Statistics with Means, Standard Deviation, Linear Regression, and Correlation Coefficient

PROGRAMMING: Up to 79 Steps, with Automatic Memory Allocation; Program Scrolling; Conditional and Simple Branching; Pause

Stock #HP-10C, List \$70 \$59.95

HP-11C ADVANCED PROGRAMMABLE SCIENTIFIC/STATISTICAL

with extra capabilities for Engineers, Scientists and Graduate Students



Every function and feature of the HP-10C above, plus:

MATH: Hyperbolics; Rounding; % Change; Absolute Value; Permutations and Combinations

STATISTICS: Gamma Function; Random Number Generator

PROGRAMMING: Up to 203 Steps; Insert/Delete; 8 Conditional Tests; Up to 15 Labels; User Mode

Stock #HP-11C, List \$90 \$79.95

Also available — HP-11C Solutions Book (page 47)

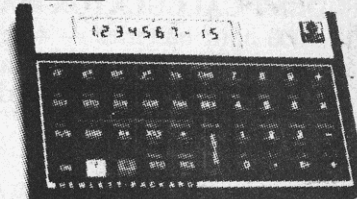
Also available — HP-15C Advanced Functions Handbook (page 47)



Stock #HP-10 Series LIT (Literature) N/C

HP-15C ADVANCED PROGRAMMABLE SCIENTIFIC/STATISTICAL

with Special Functions



SPECIAL PRICE

This is the Top-of-the-Line, for Professionals who require Considerable Computing Power.

Every function and feature of the HP-10C and HP-11C, plus:

SPECIAL FUNCTIONS: Root Finding (Solve); Integration; Complex Number Arithmetic

PROGRAMMING: Up to 448 Steps, Up to 67 Data Registers; Up to 25 Labels; 12 Conditional tests; 7 Levels of Subroutines

MATRIX OPERATIONS: Real and Complex Matrix Arithmetic; Determinants; Inversions; Linear Systems; Transpositions; Norms and Residuals (it can invert an 8x8 matrix in 85 seconds and solve 7 equations for 7 unknowns in 22 seconds!)

Stock #HP-15C, List \$120 \$92.95

HP-16C "COMPUTER SCIENTIST"

for Programming Specialists, Digital Electronics Designers and their Students — this is the Most Powerful Combination of Capabilities - true state-of-the-art, in a class by itself.



MATH: Arithmetic including Reciprocals; Absolute Value; Double Precision /, *; Boolean AND, OR, XOR, NOT

BASE CONVERSIONS: Hexadecimal-Decimal-Octal-Binary; Integer and Floating Point Modes

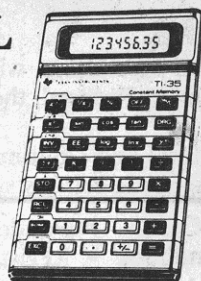
BIT MANIPULATION: Up to 64-Bit capability; Exact Integer Arithmetic; Left, Right Justify; Masking; Word-Size specification; One's, Two's Complement and Unsigned Mode; Status and Memory keys; Self-check; Bit Testing, Setting, Checksum and Clearing; Bit Shifting and Rotating; Scrolling by Digit or Window.

PROGRAMMING: Up to 203 Lines; Up to 101 Registers; Label Addressing; Looping with 8 Conditional Tests; Insert, Delete; Program Review; 4 Levels of Subroutines

Stock #HP-16C, List \$120 \$97.95

Business Calculators

TI-35 ECONOMICAL SCIENTIFIC CALCULATOR

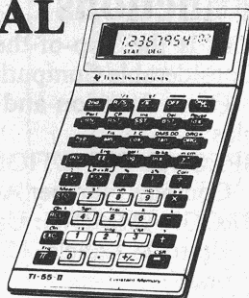


Modern, with algebraic logic and statistics — a **BEST BUY** for learning to calculate.

Includes wallet, 48 page Owner's Manual and 224 page **STUDENT CALCULATOR MATH BOOK**. LCD calculator with 1000 hour batteries — 4-key Constant Memory retains numbers when unit is off — Basic functions including factorials — powers, roots, logs, trig — 1-variable statistics including mean and variance.

Stock #TI-35.....\$24.95

TI-55II ECONOMICAL PROGRAMMABLE SCIENTIFIC CALCULATOR



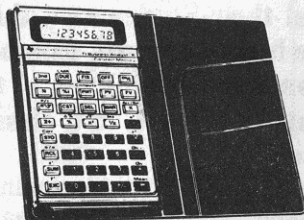
With algebraic logic and statistics — a **BEST BUY** for learning to program.

Long-life batteries, carrying case and **CALCULATOR DECISION MAKING SOURCE-BOOK** Included — 8 Constant Memory registers with arithmetic — 56 program steps for rapid, accurate calculations — 112 powerful functions including conversions — 2-variable statistics including means, variances, regression/trend lines via least squares.

Stock #TI-BA-II, List Price \$45.00.....\$38.95

BUSINESS MODELS

TI BUSINESS ANALYST-II

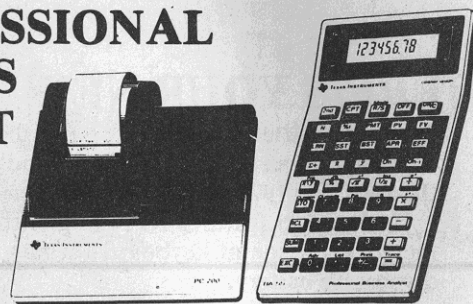


Built-in formulas give you a new ease in the world of business and finance. Standard math functions such as square root are provided in addition to statistical functions such as mean, standard deviation and linear regression. Business functions include lease/buy options, loan amortizations, sales/earning forecasts, and real estate mortgages all without going through manual table look-ups. With the Executive Calculator Guide-book (included) you'll find over 200 easy-to-follow business and personal situations described.

Stock #TI-BA-II, List \$50.....\$43.95

TI PROFESSIONAL BUSINESS ANALYST

Printer
Available
December
1983



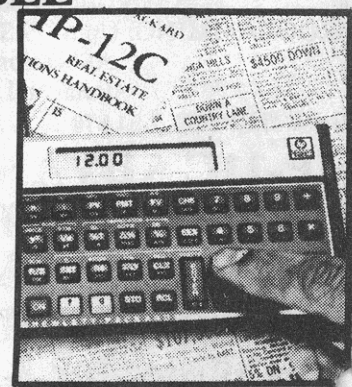
A powerful combination for the professional or graduate business student. It's the Top-of-the-line from Texas Instruments and it has all the added features such as constant memory, tilt-top styling, LCD display and it's programmable, up to 32 steps. In addition to all of the features of the Business Analyst-II it features Internal Rate of Return, Variable Cash Flows, Interest Rate Conversions, Time Value of Money, and Principle/Interest Problems. It comes complete with the Professional Business Analyst Guide to help you fully utilize the calculator's features. In addition the PC-200 battery operated thermal printer may be used with your Professional Business Analyst to produce printed output. The PC-200 uses 4 AA batteries (not included) and prints at 2 lines-per-second.

Stock #TI BA-55, List \$60\$51.95

Stock #PC-200 (Printer), List \$70\$59.95

HP-12C ADVANCED PROGRAMMABLE FINANCIAL/ STATISTICAL

for the Businessman, Financial Professional, and Student who intends to join them—far and away the World's Most Powerful and Versatile Business Calculator/ Computer.



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 \$120\$97.95

Also available — HP-12C Solutions Book, Real Estate Applications, Leasing Applications and Training Guide (page 47)



Calculator Programming

"SOUP UP" YOUR HP-41 WITH SYNTHETIC PROGRAMMING

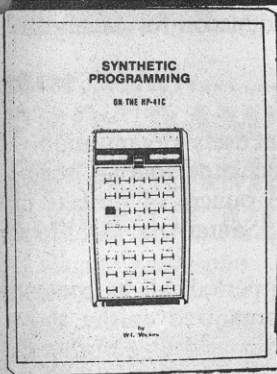
When you press the keys on your HP-41 in PRGM mode, instructions are entered into program memory. Many of these instructions contain more than one byte. Using special techniques to pull apart these bytes and recombine them with other bytes, you can synthesize an extensive set of new instructions which are not described in the Owner's Handbook. The creation and use of these instructions is Synthetic Programming (SP). It provides a wide range of extended capability for your HP-41.

As a simple example, the synthetic instructions STO M and RCL M allow the rightmost 7 character positions of the ALPHA

register to be used for general-purpose numeric storage. Many SP capabilities are useful in day-to-day applications, while some are simply fun to play with. If you like your HP-41, you'll like synthetic programming!

Hewlett-Packard does not support SP in any way. They will not answer any questions on SP, and synthetic techniques are not even hinted at in the HP-41 owner's manual. If you want to find out more about SP, consult some of the references on this page. Isn't it time you found out what you have been missing?

Edu-CALC does support Synthetic Programming!



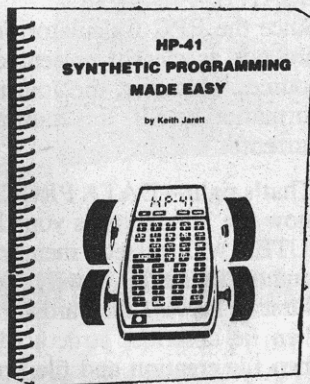
SYNTHETIC PROGRAMMING ON THE HP-41C

by William Wickes

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 data 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. Requires temporary use of a memory module; a card reader or wand would be very helpful. Stock #P-92, Larken Publications, 96p, softbound \$10.95

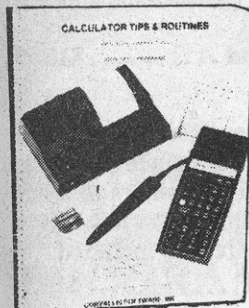
HP-41 SYNTHETIC PROGRAMMING MADE EASY

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 (P-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 card reader, XFUNCTION module, or wand will be helpful. Barcode for all programs is included.

Stock #P-146, Synthetix, 192p, plastic spiral bound . . . \$16.95



CALCULATOR TIPS & ROUTINES

ESPECIALLY FOR THE HP-41C/HP-41CV

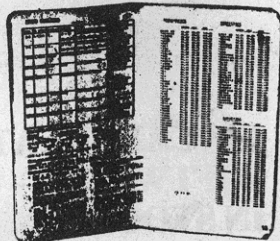
Edited by John Dearing

Here are the best hints, suggestions and discussions from HP's Key Notes and from PPC Notes, collected in one place from many issues and well-indexed for your easy use.

Stock #P-93, Corvallis Software, 136p, softbound . . . \$14.95

HP-41 SYNTHETIC QUICK REFERENCE GUIDE

Compiled by Jeremy Smith



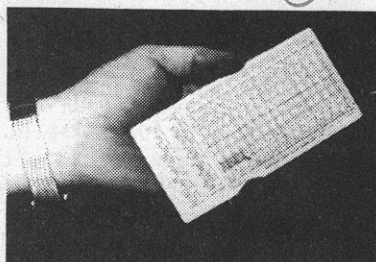
Charts, Tables and Diagrams that you'll need for Synthetic Programming collected from books and journal articles. This compilation is in compact, pocket form — it contains no explanations or examples, though references are given (e.g. to the books by Wickes, Jarett, and Reinstien).

Stock #P-147, Jeremy Smith, 32p, softbound \$3.75

Calculator Programming Continued

QUICK REFERENCE CARD FOR SYNTHETIC PROGRAMMING

Durable 3-color plastic card showing flag functions and byte equivalences. An indispensable aid for synthetic programming.
Stock #P-92C, Synthetix, plastic card \$2.75

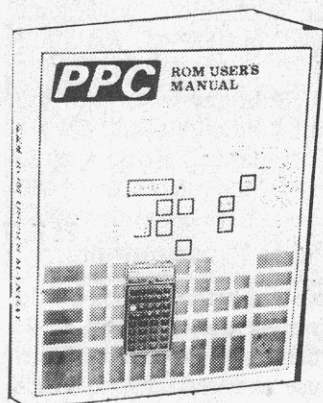


PPC ROM FOR THE HP-41

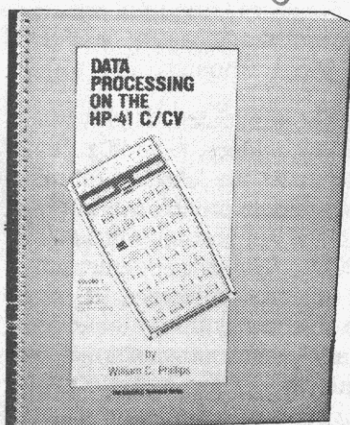
The PPC ROM is an 8K Custom ROM module manufactured by HP for PPC, an independent user organization. The accompanying 500-page manual exhaustively documents the use of its 122 programs in 4 categories — math, peripheral, utility, and synthetic. State of the art programs allow you to sort registers, alpha 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 #A-518 (PPC ROM), List \$95 \$84.95



THE PPC CALCULATOR JOURNAL



DATA PROCESSING ON THE HP-41

by William Phillips

A publication of PPC, the independent users' organization.

For information on PPC and its Calculator Journal, send a self-addressed 9"x12" envelope with 3 ounces of postage to:

PPC, 2545 W. Camden Pl., Dept. E, Santa Ana, CA 92604, USA. (714) 754-6226

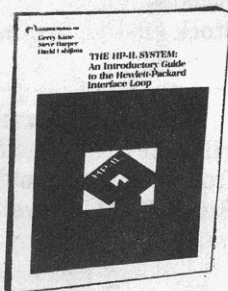
Since the PPC Calculator Journal is a periodical, its contents are not as clearly presented or well-organized as the above sources. However, the Journal is the primary source of new information on SP. It is must reading for those who wish to keep current.

That's right—DATA PROCESSING on your calculator! You know the HP-IL turns your HP-41 into a PERSONAL COMPUTER with cassette memory and printer. Now a pro teaches you how to use this power.

First he surveys the hardware, RPN and simple programming. Then he describes structured techniques for program design. Then file creation and file processing are explained. Two large programs are studied in detail as examples (one is a useful Cash Register and Running Inventory Program).

Stock #P-165, EduCALC, 147p, spiralbound \$16.95

THE HP-IL SYSTEM: AN INTRODUCTORY GUIDE TO THE HEWLETT-PACKARD INTERFACE LOOP by Kane/Harper/Ushijima



This is the definitive guide to the new Hewlett-Packard Interface Loop. The Loop is a bit-serial interface that links the HP-41C or the HP Series 80 personal computers to a new generation of compact peripherals. Summaries of all HP-IL remote messages and message sequences are also included.

Stock #P-134, Osborne, 106p, softbound \$16.95

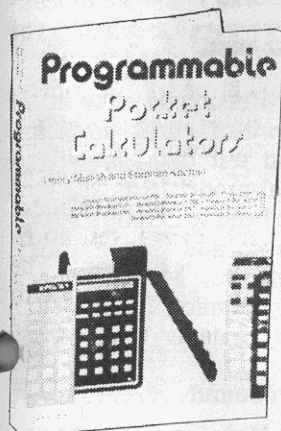
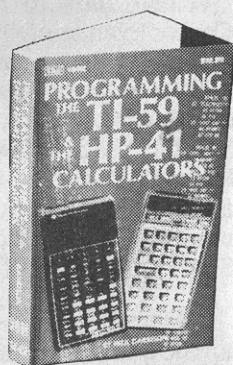
AN INVESTMENT IN KNOWLEDGE
PAYS FOR BEST DIVIDENDS.

HP-CALCULATOR ACCESSORIES/
SOFTWARE — COMPLETE —
IN STOCK!

PROGRAMMING THE TI-59 AND THE HP-41

CALCULATORS

by Paul Garrison

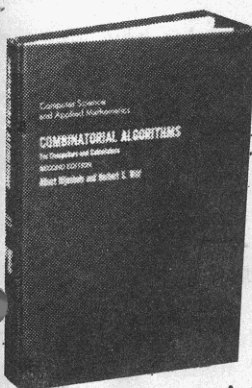
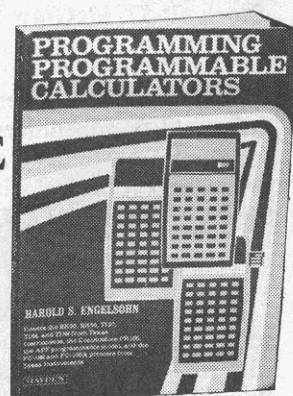


PROGRAMMABLE POCKET CALCULATORS

by Mullish/Kochan

PROGRAMMING PROGRAMMABLE CALCULATORS

by Harold Engelsohn

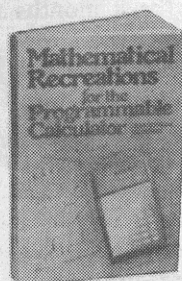


COMBINATORIAL ALGORITHMS FOR COMPUTERS AND CALCULATORS (SECOND EDITION)

by Nijenhuis/Wilf

MATHEMATICAL RECREATIONS FOR THE PROGRAMMABLE CALCULATOR

by Hoffman/Mohler



Calculator Programming Continued

At last — the “no-experience necessary” guide. Get it WITH or BEFORE your new programmable calculator!! Program writing is a snap when you use these tips and techniques that can't be found in manufacturer's manuals. Plus many specific programs for practical applications and games.

Stock #P-151, TAB, 294p, softbound \$12.95

Written just for RPN logic, this book takes up where the manufacturer's manuals leave off. After a chapter on the art of programming and another on the architecture and features of the calculators, there are discussions of each type of machine, giving details and examples for manual operation, programming, debugging and editing.

Novus Math PR; Sinclair Sci. Programmable; Hewlett-Packard 25, 25C, 55, 65, 67, 19C, 33E.

Stock #P-75, Hayden, 254p, softbound \$11.95

If you have had trouble making sense out of Texas Instruments' owner's manuals, this book is for you. Written for all programmable calculators with algebraic (AOS) logic, this guide makes learning-how-to-program a pleasurable experience (instead of a frustrating one). It gives one step at a time, with plenty of details and fully presented examples and flow charts. Lots of material on Branches, Loops, Decisions, T-register Tests, Flags, Subroutines, Indirect Advertising. SR-52, SR-56, TI-57, TI-58, TI-59, Commodore PR100; APF Programmable; TI printers.

Stock #P-74, Hayden, 211p, softbound \$12.95

Like a novel, this impressive book may be read on several levels. On one, this is a ready-to-use collection of FORTRAN subroutines for the solution of combinatorial problems — “What is the minimal length of road connecting the 48 state capitols?” “Estimate the probability that a shuffled deck contains no straight.” At the other extreme, pure mathematicians will find much here that is new and interesting. In between, calculator programming buffs will get professional stimulation, a first-class education, and lots of detailed help. 62 Algorithms of two types, Exhaustive Search and Random Sampling, with thorough Discussions, Flow Charts, Specifications and Sample Runs.

Stock #P-25, Academic Press, 302p, hardbound \$24.50

“Ordinary” buyers of programmable calculators recognize immediately that they are marvelous toys (a fact most manufacturers ignore). This is the authors' collection of problems for entertainment — and when you become a programming expert and learn some math to boot, it's a free bonus!

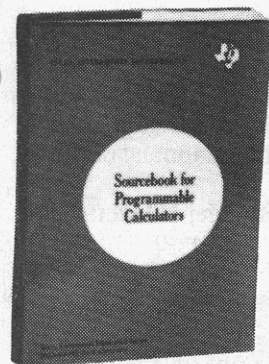
Requires an interest in math, a little algebra and (for only a few problems) trigonometry. TI-57 or HP-25 calculators are adequate (TI-55 is not), but programming skills are not needed to start. Chapter 1 covers techniques of Programming and Problem-Solving; Chapter 2 gives Numerical Recreations; Chapter 3 is devoted to games. Appendices discuss sample Flowcharts and Program Listings.

Stock #P-100, Hayden, 322p, softbound \$15.95

Calculator Programming Continued

HOW TO PROGRAM YOUR PROGRAMMABLE CALCULATOR

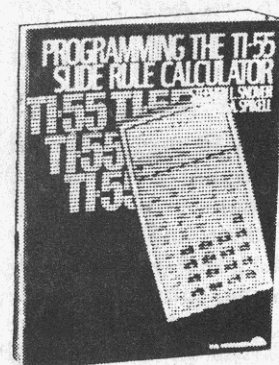
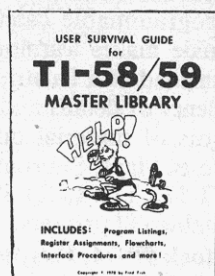
by Snover/Spikell



SOURCEBOOK FOR PROGRAMMABLE CALCULATORS

by Texas Instruments

USER SURVIVAL GUIDE FOR TI-58/59 MASTER LIBRARY



PROGRAMMING THE TI-55 SLIDE RULE CALCULATOR

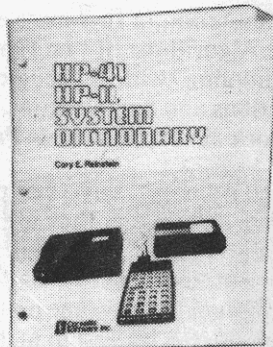
by Snover/Spikell

HP-41/HP-11C SYSTEM DICTIONARY

(PPC Dictionary)

by Cory Reinstein and
updated by PPC

New



AU FOND de la HP-41C (in French)

by Jean-Daniel Dodin

A real "how to" book for the practical problem solver. Covers Evaluating Functions, Looping and Decision Making — over 160 examples and exercises with solutions show you how to program your calculator to solve problems in business and finance, science, math and even gambling.

Specific programs are given for calculators with algebraic logic (TI-57 and EC4000) and for RPN (HP-33E) — the techniques presented can be easily adapted to other machines made by TI, HP, and Sharp.

Stock #P-29, Prentice-Hall, 271p, softbound \$8.95

Designed to guide students and professionals alike in the application of calculator analysis to real-world problems. Step-by-step methods to analyze and test data, investigate relationships, and apply mathematical models with the kind of ease, speed, and accuracy you have been searching for.

Basic Number Theory, College Algebra and Trigonometry, Calculus and Linear Algebra, Statistics, Music Theory, Business and Operations Research, Economics, Biology, Bio-medical Engineering, Electrical and Systems Engineering, Physics and Astronomy.

Stock #P-37, McGraw-Hill, 410p, hardbound \$29.95

Designed to fill a very real gap in TI's manual documentation. Also, appendices give useful information on Registers vs. Program Memory and Pseudo-Instruction Codes. Gives procedures for interfacing CROM programs in user memory.

Stock #P-150, TI PPC Club, 150p, staple bound. \$12.95

Here is a practical handbook that explains how you can solve math, finance and science problems on the TI-55 — with step-by-step, hands-on techniques. (You can adapt these flowchart methods to other TI, HP or Sharp calculators, as well as personal computers.)

Beginners are led to write their first programs, become familiar with checking and editing them, and finally learn how to get programs to loop and to generate sequences.

Stock #P-101, Prentice-Hall, 117p, softbound \$7.95

Updated in September 1983 from its original printing in 1982, it reflects the latest knowledge in this fast moving field. It includes over 900 of the most-used functions. Each function is described, outlined, and cross-referenced to other functions it might affect or those that can be used with it. Also included is an execution timing chart for HP-41 functions, a subroutine decision table, special "synthetic" instructions to use to assign any function to any key and methods to produce 128 tones, reference charts for the printer and time module, and lots more. After being out of print for 8 months we are very happy to see PPC revive this best seller.

Stock #P-102, PPC, 91p, softbound \$10.95

Premier ouvrage francasi decrivant completement la structure de la HP-41C — tant du point de vue mecanique, eletrique, que logique, avec un plan des principales zones de la memoire, y compris celle du microprocesseur. Premier au monde a donner la connaissance de l'aspect le plus cache de la HP-41C: le microcode, avec des esamples d'application. Get ouvrage est organise de facon a servir d'aide memoir et d'instrument de travail quotidien a l'utilisateur avance de la HP-41C.

Stock #P-160, J-D Dodin, 110p, softbound \$16.95



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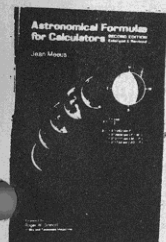
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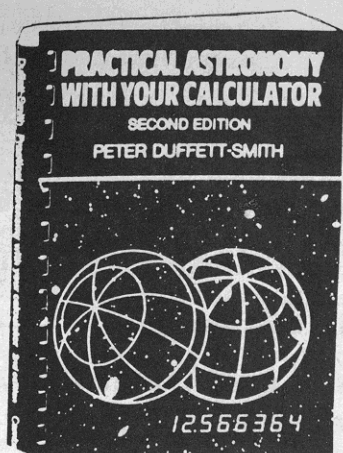
PRACTICAL ASTRONOMY WITH YOUR CALCULATOR

by Peter Duffett-Smith



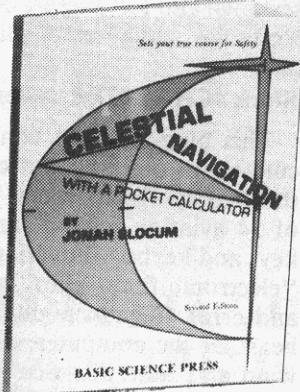
ASTRONOMICAL FORMULAE FOR CALCULATORS (SECOND EDITION)

by Jean Meeus



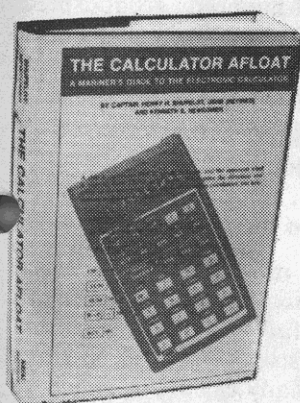
CELESTIAL NAVIGATION WITH A POCKET CALCULATOR

by Jonah Slocum



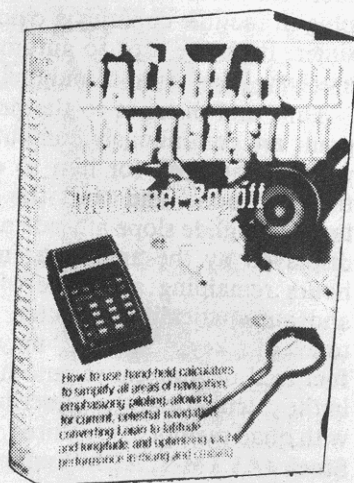
THE CALCULATOR AFLOAT

by Shufeldt/Newcomer



CALCULATOR NAVIGATION

by Mortimer Rogoff



Astronomy & Navigation

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

Stock #A-83, Cambridge Univ. Press, 129p, softbound \$10.95

If you are an advanced amateur, competent with your programmable calculator, here's the start of many a rich and pleasant evening's investigations. This dedicated and thorough author (Asteroid 2213 is named after him!) has studied the classical treatises and selected the main perturbations of the Moon and Planets. He gives them concisely with enough secular terms so that these formulae can be used in serious historical work.

About forty topics in Calendar Problems, Celestial Phenomena and Mechanics, plus a few math techniques like Interpolation and Regression. No programs are given.

Stock #A-139, William-Bell, 203p, softbound\$14.95

Here it is, finally—the definitive HOW-TO book for yachtsmen, pilots and professional navigators. Step-by-step examples and duplicate programs for RPN and Algebraic logic systems.

Detailed introduction and basic concepts for Astronomy, Plane Navigation, Spherical Navigation, Time Measurement, Astronomical Triangles.

Stock #A73, Basic Science, 116p, softbound\$14.95

This book gives you a rare blend: The modern navigational techniques of HP's Newcomer passed through the prism of Captain Schufeldt's more than forty years experience as a master mariner.

Features include a wealth of historical background, a section useful to calculator buyers, long-term almanacs, and a stress of elementary statistical techniques for getting greater accuracy. A calculator with basic trig functions will solve every formula.

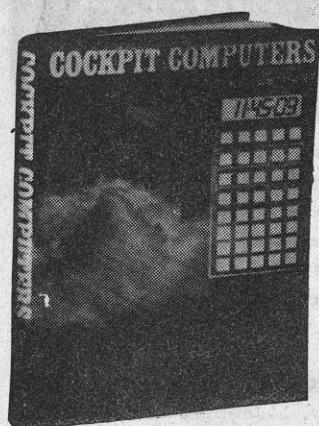
The first chapter reviews calculators and the math. Then there are chapters on Inshore and Offshore Navigation, Celestial Observations and Computations; finally you get formulas covering Barometric Pressure, Turning Circle, Fuel Consumption, Propellor Slip, Ship Stability and Trim, Loads, Wind Pressure, Sailing to Weather and Downwind, Draft Variation when needed.

Stock #A-82, Naval Institute Press, 225p, hardbound . \$16.95

This book has both — step-by-step instructions for the beginner and careful how-and-why explanations for the experienced seaman. A magnetic-card-reading calculator is required.

Coastwise Navigation with regression techniques; Sailing including use of Fourier coefficients for downwind polar performance curves; Celestial Navigation with regression for improved accuracy; and replacement of the traditional almanac by prerecorded data-cards; Loran A and C; 120 page appendix of programs, with instructions for customizing them to your own vessel and calculator.

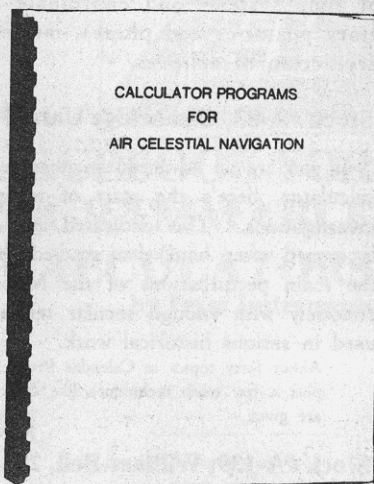
Stock #A-94, Norton, 418p, hardbound...\$31.95



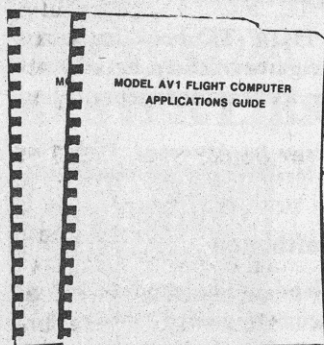
COCKPIT COMPUTERS

by Paul Garrison

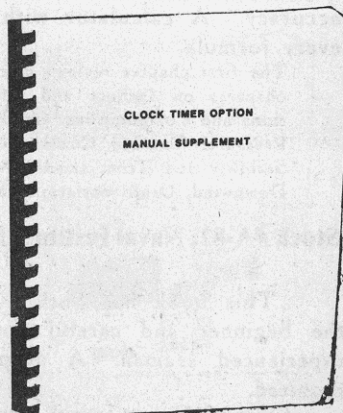
PROGRAMS FOR AIR CELESTIAL NAVIGATION



AVIATION MODULE FOR HP-41C/CV CALCULATORS



AVIATION PROGRAMS FOR HP TIME MODULE



Here's a simple and readable alternative to owner's manuals. It's a super-practical guide — for 20,000-hour pilots and students alike — for using calculators to quickly find: Fastest airspeed and most economical altitude for a given flight, wind direction and velocity at a given moment of flight; correct speed for a flight to avoid a fuel stop. It has in-depth discussions of 21 specific problems including time to climb, area navigation and true airspeed. Contains evaluations, instructions and programs for TI-58C/59, HP-41 and dedicated aviation calculators like Heathkit OC-1401, Navtronic 1701 and TI Avstar. (You can use this book for comparison-shopping.)

Stock #M-129, McGraw-Hill, 249p, hardbound \$29.95

The programs in this manual, when used with an HP-41CV (or HP-41C with Quad memory module) calculator equipped with the HP Navigation Pac make celestial navigation so simple that the pilot of a small aircraft may perform this fascinating navigation art by himself. The Nav Pac supplies the basic information and the programs in the manual exploit this information in such a way that entry of time, date and sextant readings yields direct display of position latitude and longitude. Sextant corrections (for both nautical and aeronautical sextants) and for aircraft motion are automatically performed. No tables, almanacs or plotting are required, not even a sextant.

Stock #CN-1, ADM Systems, 110p, spiralbound. . . . \$49.95

This plug-in ROM converts your HP-41C or 41-CV calculator into an aviation computer. Designed by a pilot and thoroughly flight tested, it contains an optimum selection of 34 aviation related functions. Automatically preassigned keys and keyboard overlay make interaction with the nine leg "electronic flight plan" and other functions simple, logical and error free. In addition to the flight plan, which is the heart of the computer, all standard airspeed, groundspeed, wind and time/distance functions are supplied. Great circle navigation functions and unit conversions are additional features of this unique system. Made by ADM Systems.

Stock #AV-1 (AV-1 Module, Keyboard Overlay, 87p,

Operator's Guide, 108p, Applications Guide) \$164.95

Stock #AV-1 MANUALS ONLY \$15.95

(Price of manuals may be applied to the purchase of AV-1)

The programs furnished in this manual supplement the basic capabilities of the AV-1 aviation module by adding 11 more functions which use the powerful HP time module. This plug-in module contains a clock, a stop watch and an alarm timer. It can be used to automate many calculator functions involving time, distance and fuel problems.

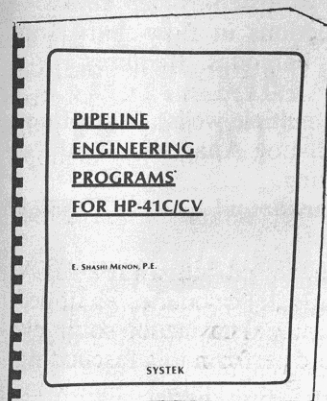
Time and distance to the next (or any) flight plan checkpoint are continuously computed and displayed to the pilot without the need for him to do anything other than select the checkpoint and start the function running. Time, distance and glide slope altitude are continuously computed and displayed by the approach function. The amount of fuel, hours remaining and time of exhaustion are continuously and automatically computed and may be displayed at the touch of a key. "Alarms" may be set to remind you to switch fuel feed or may cause automatic execution of any function in the calculator at the prescribed time. HP-41 CV or HP-41C with quad memory is required.

Stock #AVTM-1, ADM Systems, 68p, spiralbound . . . \$49.95

TRUST OUR DESCRIPTIONS — We guarantee that they are complete and accurate — your money-back if not as described.



Engineering



PIPELINE ENGINEERING PROGRAMS FOR HP-41C/CV

by Shashi Menon

New

Throw away your charts, graphs and nomograms! Here are your 17 most useful routines — practical thoroughly tested and fast. Beginning engineer and experienced professional both get easy, portable, rapid calculations at the touch of a button. No programming experience is necessary — in fact, you can master most of these programs in less than 15 minutes each.

They are given with descriptions and operating instructions, formulas, sample problems, program listings, and descriptions of input and output. You'll need a HP-41CV, CX, or C with Quad Memory Module; a thermal printer is optional.

Stock #E-213, Systek, 133p, softbound \$49.95

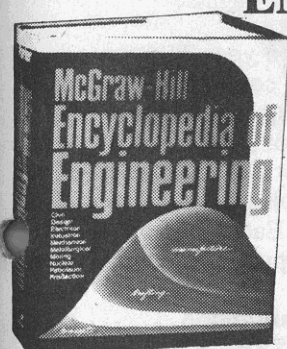
ILLUSTRATED HANDBOOK OF ELECTRONIC TABLES, SYMBOLS, MEASUREMENTS AND VALUES

(Second Edition)
by Raymond Ludwig

New

The one reference book that technicians, engineers, instructors, and experimenters need right at hand. It contains thousands of helpful formulas, values, measurements, troubleshooting charts, illustrations, and test procedures that answer your toughest questions in seconds. Organized into major subject areas, this guide provides essential data on schematic symbols, logic symbols, mathematical signs, calculations, and much more.

Stock #E-205, Prentice-Hall, 352p, softbound \$27.95



ENCYCLOPEDIA OF ENGINEERING

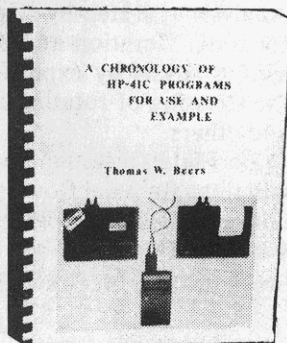
edited by Sybil Parker

This belongs in every engineer's personal library — it is the first comprehensive single-volume reference for the whole range of concerns of today's professional engineer. Discusses both theory and practice in 10 great branches of engineering; Civil, Design, Electrical, Industrial, Mechanical, Metallurgical, Mining, Nuclear, Petroleum, Production. 693 articles, 1670 illustrations, 6000-entry index. Bibliographies and cross-references. This up-to-the-minute book is interesting enough for bedside reading!

Stock #E-169, McGraw-Hill, 1264p, hardbound \$57.50

PROGRAMS FOR FORESTRY, LOGGING, AND SAWMILLS USING THE HP-41C

by Thomas Beers



You are in luck! Forestry Professor Thomas Beers at Purdue now offers his personal notebook of 29 programs in manual form with complete documentation - directions, examples, program listings, formulas and even references to US Forest Service Technical Reports, etc. These programs are useful: Timber Volume and Inventory, Sawmill Log Profit Margin, Log Volumes, Tree Heights, Statistics/Probability, Log Scaling and much more (a total of 5527 steps). You save time (like sorting by grade within species), avoid table look-up and minimize errors.

Requires HP-41CV or HP-41C with quad memory — printer optional.

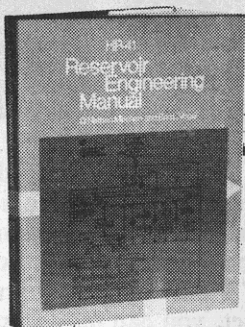
Stock #E-178, Beers, 300p, comb-bound \$31.95

Magnetic tape of all 29 programs is also available (allow 3 weeks)

Stock #E-178MT, Magnetic tape \$125.00

HP-41 RESERVOIR ENGINEERING MANUAL

by Meehan/Vogel



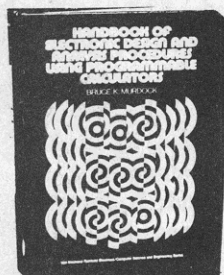
32 programs to help engineers predict oil, gas, and water reserves, optimize production, and evaluate opportunities to increase both. Each program includes an overview, equations, nomenclature, extensive examples with step-by-step keystrokes and printed outputs, user instructions in flow-chart form, program length and listing, plus barcodes. Requires HP-41 with Petroleum Fluids Pac.

Decline Curve Analysis (single or multiple wells), Waterflooding, Pressure-Transient and Well-Log Analysis, Fluid Properties, and Natural Gas Engineering.

Stock #E-136, PennWell, 364p, hardbound \$59.95

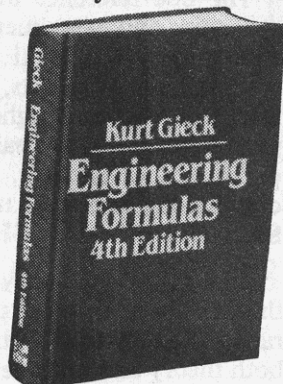
HANDBOOK OF ELECTRONIC DESIGN AND ANALYSIS PROCEDURES USING PROGRAMMABLE CALCULATORS

by Bruce Murdock



ENGINEERING FORMULAS (4th EDITION)

by Kurt Gieck



Here are programs and techniques for using HP67/97 or TI 58/59 calculators to solve problems normally done on a computer. Network analysis, active and passive filter design, high frequency amplifier design, and engineering math.

Complete documentation includes flowcharts, algorithms, sample problems, tips, and references. Fully annotated program listings and helpful numerical examples.

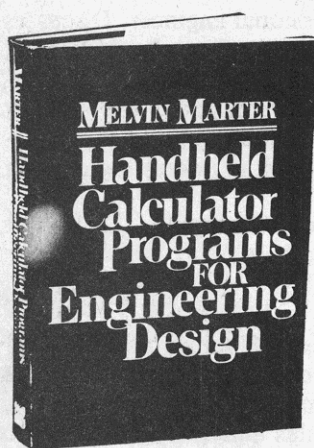
Stock #E-86, VNR, 525p, hardbound \$32.95

This compact book contains thousands of technical formulae. It's perfect for the engineer or scientist who works in a variety of disciplines. No theory or application is given so room has been provided for extensive notes. Subjects covered include arithmetic, analytical geometry, hyperbolic functions, differential calculus, integral calculus, statics, kinematics, dynamics, hydraulics, heat, strength, machine parts, production engineering, electrical engineering, radiation physics, and chemistry.

Stock #E-164, McGraw-Hill, 216p, hardbound \$16.95

HANDHELD CALCULATOR PROGRAMS FOR ENGINEERING DESIGN

by Melvin Marter

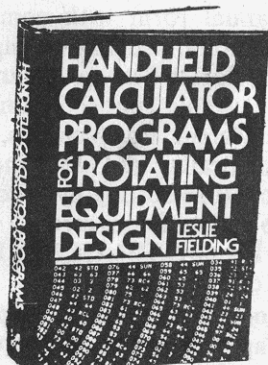


Solve stress and loading problems on your TI-59 calculator! Do Beam Analysis without a large computer — ordinary, general, nonuniform and overhanging, as well as moments. Stress Concentration Factors, like U or V notches or a hole in a bar, Compression and Belleville springs, Journal bearings. A section on general design gives solutions of Cubic Equations, Curve Fits and Bolt Loading. Each program has step-by-step instructions with charts, outputs and debugging discussion.

Stock #E-167, McGraw-Hill, 431p, hardbound \$31.95

HANDHELD CALCULATOR PROGRAMS FOR ROTATING EQUIPMENT DESIGN

by Leslie Fielding



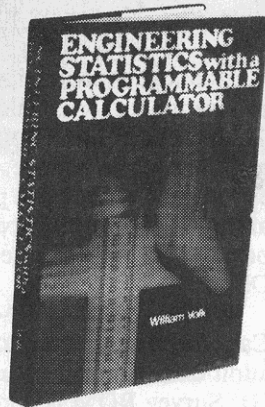
Now — design turbomachinery on your TI-59! Do Vibration Analysis with step-by-step programs for lateral critical speed, torsional vibration and blade vibration. Do Mechanical Design Analysis by exploring alternatives for blade stressing, the stressing of rotating discs for thermal and inertia effects, and others.

Do Fluid Dynamic Analysis including mean-line stage calculations for axial flow compressors, turbines and centrifugal compressors. All programs have discussions of theory, often with specific worked-out examples.

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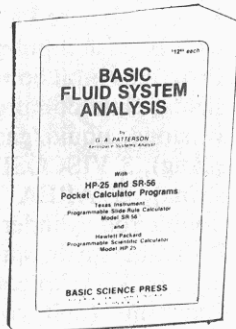
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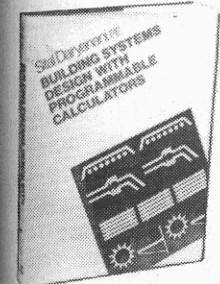
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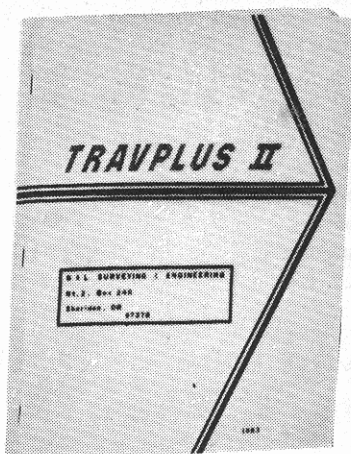
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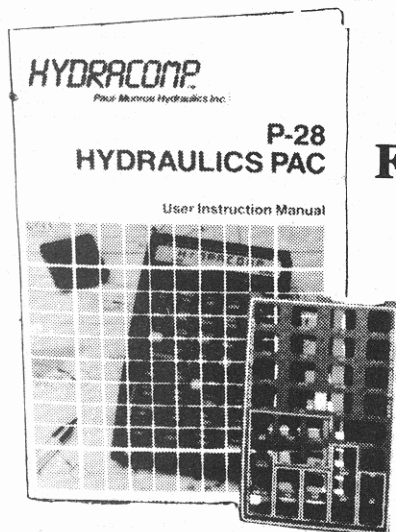
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You will need a HP-41CV (or HP41C with Quad RAM), Card Reader, X-functions/memory module, and one or two additional X-memory modules. You'll want a printer. The HP Survey ROM is compatible. 786 lines of programs come on 11 magnetic cards and also in bar code. 46p book of instructions, examples and advice. Literature available on request: order Stock#E-170 LIT.

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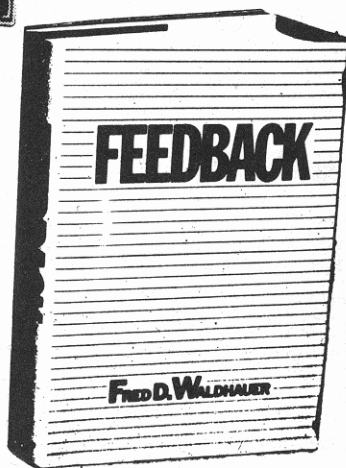


HYDRAULICS PAC FOR THE HP-41

This Program Module, Keyboard Overlay and 43p. User Manual converts your HP-41 into a powerful hydraulics engineering tool. Analyses 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 conversions, liquid/gas change with temperature, accumulator sizing), 3 VISCOSITY Programs (conversions, value/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, kw½hp conversion, pump hp), 4 TEMPERATURE Programs (unit conversions, change with throttling, gas-pressure change, heat-exchanger sizing). Descriptive literature available on request.

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Electronic circuit designers (and even upper-division EE students) get here a neat and enjoyable solution to feedback analysis and design — a new "anticausal" paradigm which analyses from output to input. This is a practical work, with many examples and calculator programs, plus a few exercises. Examples range from audio design through microwave integrated circuits. Thirty-one applications programs are given for the HP-41 calculator.

One program here converts your HP-41 into a "two-part network calculator" — it includes arithmetic, matrix inversion, lead-interchange operations, and is itself programmable! (This book is an outgrowth of courses taught by the author at Bell Labs.)

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SOLAR ENERGY PROGRAMS FOR HP-41 AND TI-59 CALCULATORS

by Klein/Beckman

SOLAR ENERGY PROGRAMS

for HP-41 and TI-59 Calculators
by
Sanford A Klein
William A Beckman

Analyse and design solar systems easily and quickly — here are the programs! They are based on four design methods developed at the University of Wisc. Solar Energy Lab. Each of 13 programs is given with description and relevant equations, input and output, instructions, notes, examples and program listings for both calculators, plus barcode for the HP-41. You'll want to use a printer, and at least one memory module for the HP-41C. You are referred to the text, *Solar Engineering of Thermal Processes*, for background theory.

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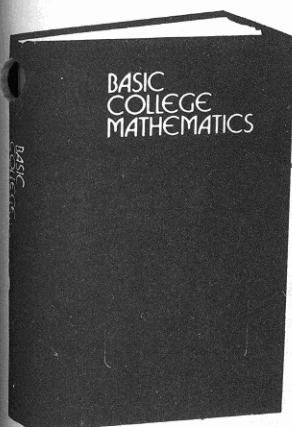
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NEW HP-41 ACCESSORIES and software are listed in this issue — be sure to check them out!

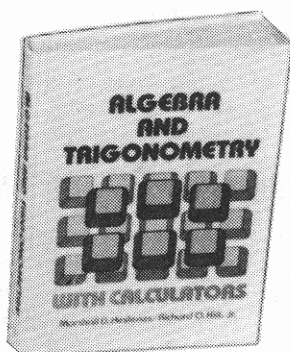
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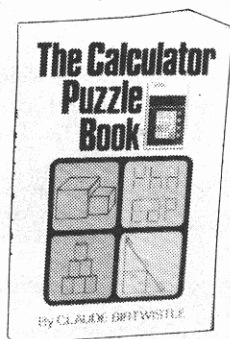


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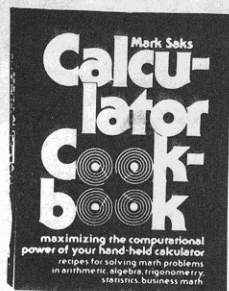
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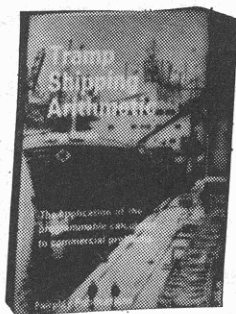
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by Mark Saks



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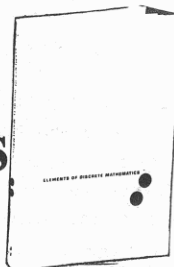
This is a series of well-tryed calculator programs written by a practicing ship operator concerned with everyday problems of commercial ship operation. While they are written for the HP-67 calculator, these programs can easily be adapted to other models of equal capacity (such as the HP-41C).

The book is divided into sections relating to voyage estimating, speed and fuel consumption, and financial calculations.

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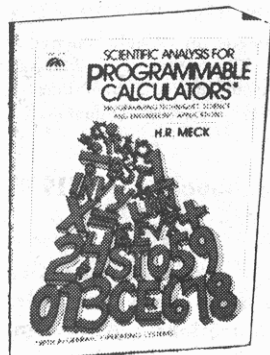
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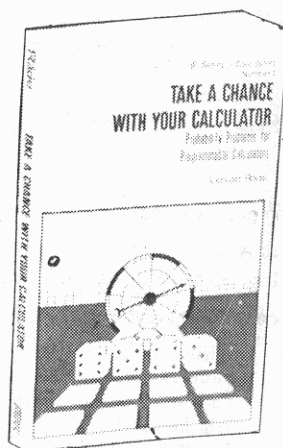
This book begins where the TI-58/59 Owners Manual ends. It offers specific programs and useful numerical techniques for many applications in Science and Engineering.

Differential Equations (general and special second order, higher order, initial and boundary values); Transcendental Functions (sine and cosine and exponential integrals, error function, elliptic integrals, factorial and Bessel functions); Numerical Integration (Simpson, Gauss and Romberg methods); Evaluation of Roots (Newton-Raphson and secant methods), and more!

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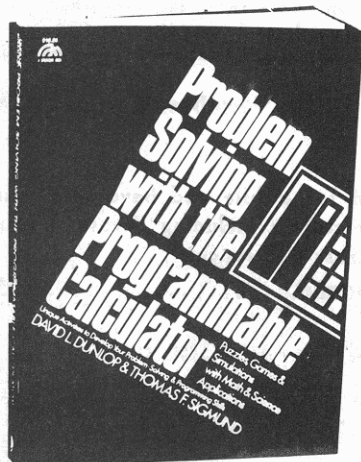
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Part One — Problems; and Part Two — Commentaries: Random Digit Generator, Tossing Dice, The Art of Simulating Spinners, Some Probability Problems, Building and Destroying Towers, Tower Games, Runs and Other Patterns, Random Walks, Some Statistical Applications, Miscellaneous Problems; and Part three — Programs.

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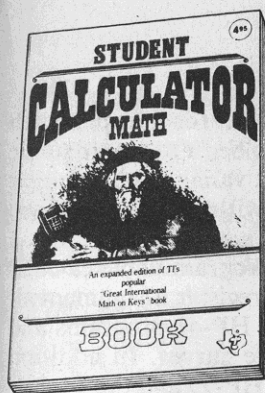
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Requires no previous programming skills. All programs given are specifically for the TI-59, though they may be modified for use on other programmable calculators.

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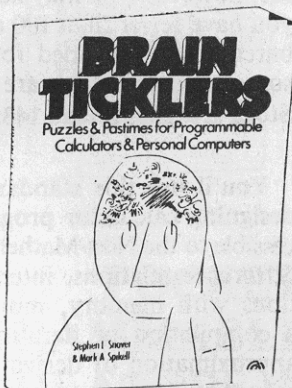


STUDENT CALCULATOR MATH BOOK

by the Staff, TI Learning Center

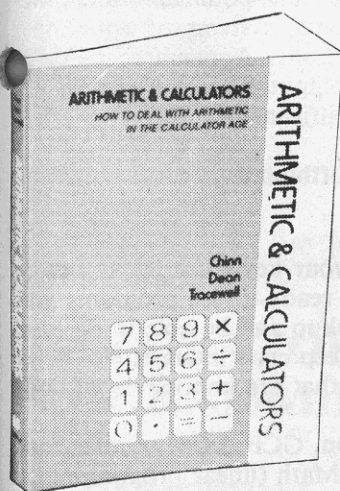
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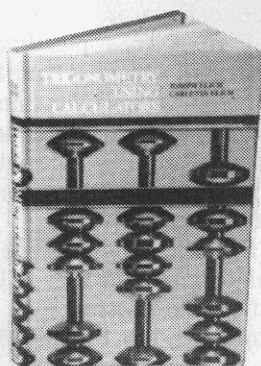
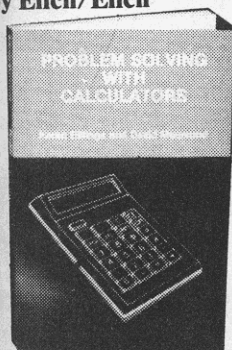
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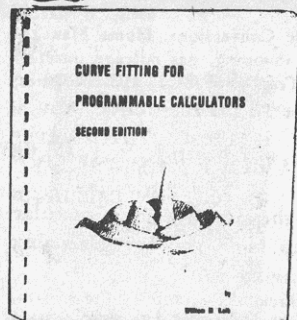
This is workbook text for a detailed review of basic arithmetic at the secondary or college level. The simple 4-function calculator acts as your workhorse for computations.

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Math & Science



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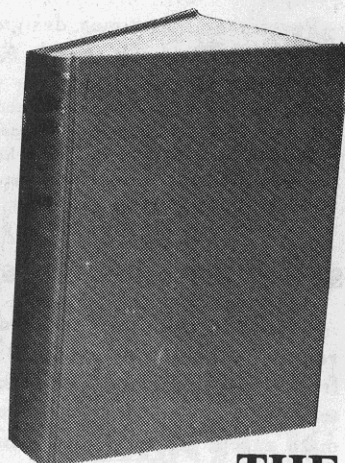
Formulas, graphs, and sample problems for a huge assortment — 38 in all — of different curves to be fit to your data.

Most of these are for one independent variable, but multiple linear regression is also covered, along with exotics like Hoerl Functions and Logistic Curves.

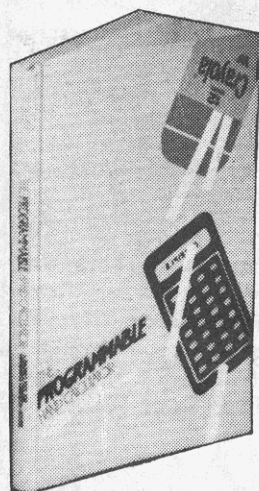
The equations are designed for any programmable calculator; however, you may need to change register assignments if you have fewer than 100 data registers. HP-41 programs and barcodes are included for half of these curves. In addition some program listings are given for the HP-75 and the TI-59.
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by Joe Traub



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THE PROGRAMMABLE HAND CALCULATOR

by Bernard Seckler

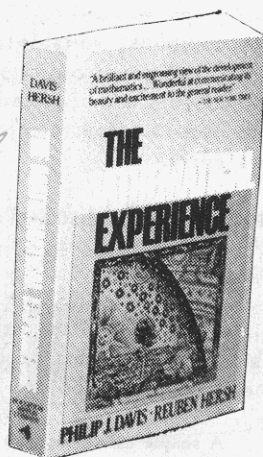
If you are a teacher, here is your key to rapid, dramatic classroom examples. With these ready-to-use programs you will have nearly instant table-lookup and be able to do long calculations quickly enough to keep class interest. You'll be able to add numerical examples that are impossible without your calculator.

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Specific programs are given for the HP-29 and TI-58 calculators — and they will run on other programmables with little or no revision.
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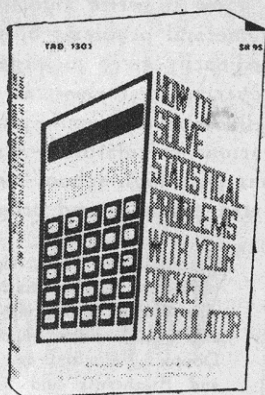
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HOW TO SOLVE STATISTICAL PROBLEMS WITH YOUR POCKET CALCULATOR

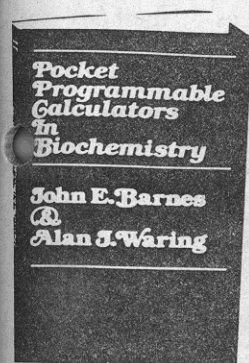
by Vicki Sharp



TAX DEDUCTIBLE for professionals

If what you want is quick answers, this HOW-TO book is for you. It is long on examples, formulas and guidance — short on theory and math. Good for rapid reference, and it contains all the commonly used statistical tests. There's even a chapter showing "How to choose quickly a statistical test." Little or no advanced math training required. Any calculator with squareroot and add-to-memory buttons will do.

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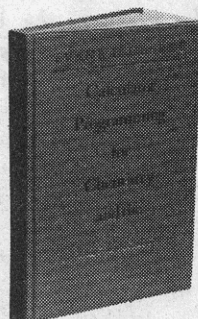
Here are 29 programs which solve problems that previously required the student or laboratory worker to go to the computing center. Each program is given with a description of the problem and the equations used to solve it. Then there is an analysis of the program's significance, instructions, comments on steps or subroutines, lists of register contents, and a sample problem with its solution. Each program is given in both algebraic and RPN logic — and most are useable on non-programmable machines, too. Finally, there are references.

Aqueous Solutions of Small Molecules, Macromolecules in Solution, Sedimentation, Ligand Binding and Kinetics, Thermodynamics, Spectroscopy, Isotopes.

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by Frank Clarke



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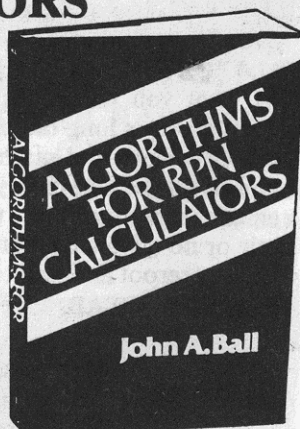
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ALGORITHMS FOR RPN CALCULATORS

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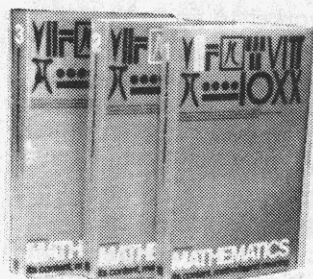
How to write algorithms to meet specific needs and solve numerical problems of remarkable complexity—even problems ordinarily given to large computers! Plus 72 actual programs covering mathematical, astronomical, engineering, and miscellaneous problems—given with methods for adapting them to various calculators. Much of this book is accessible to anyone with high school math. Exercises with answers constitute extra examples and programs.

Discussion of RPN, Algorithms, Iterative methods, Curve Fitting, Integration, Differentiation, Interpolation. Programs for topics discussed and for Special Functions, Chebyshev Polynomials, Permutations and Combinations, Number Bases, Dates/Times/Pointing in Astronomy, Doppler Velocities and Relativistic Shifts, Radio Astronomy Antennas and Brightness and Beamwidths, Electrical Engineering and Noise Levels, Trigonometry and Coordinate Systems, Money, Music, Sailboat Speeds, Stopwatch, Weather.

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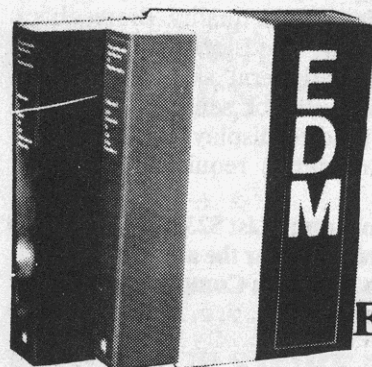
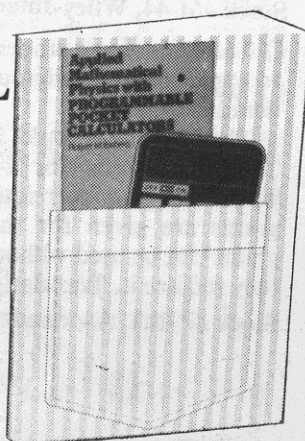
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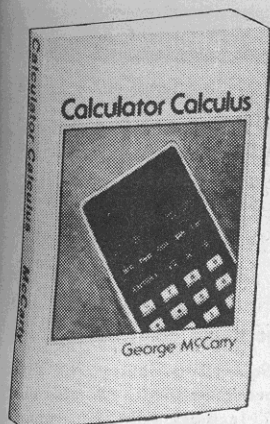
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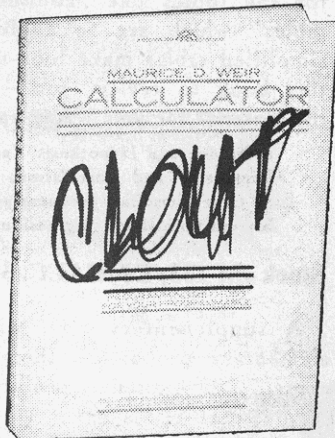
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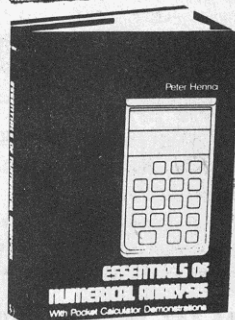
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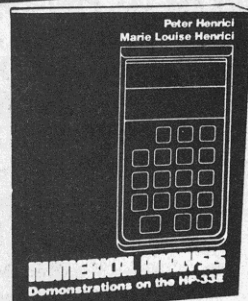
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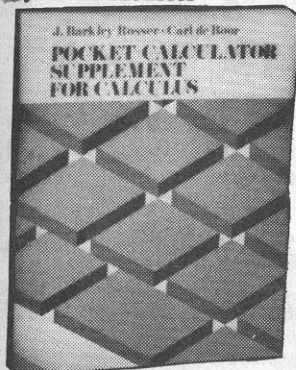
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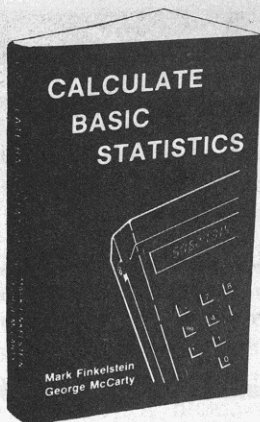
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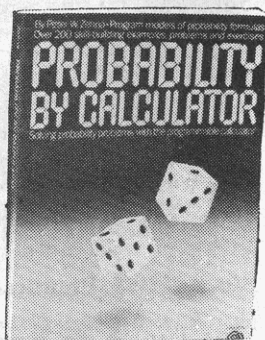
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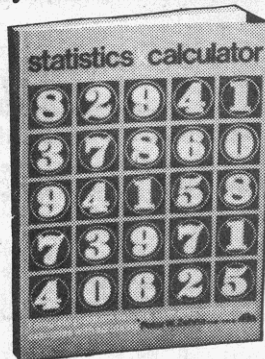
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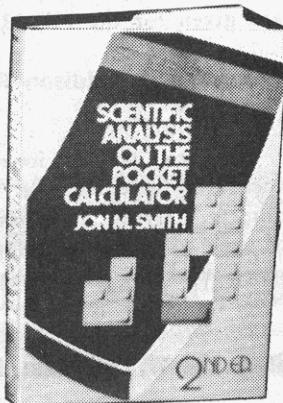
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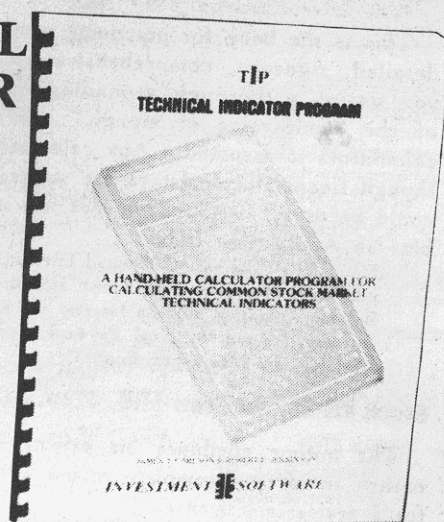
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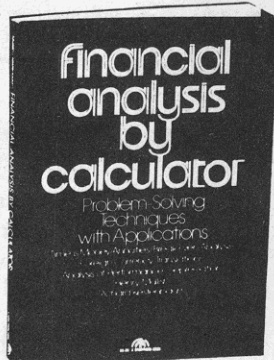
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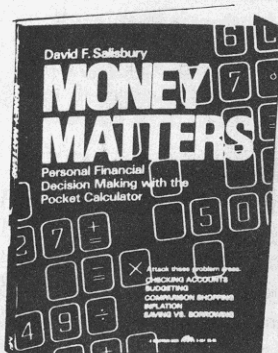
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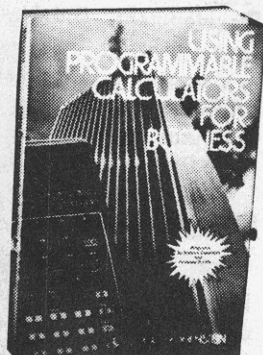
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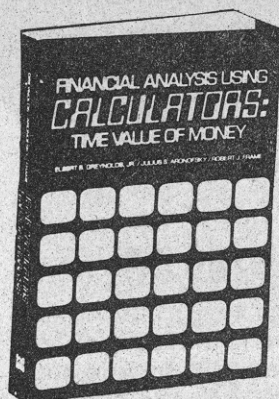
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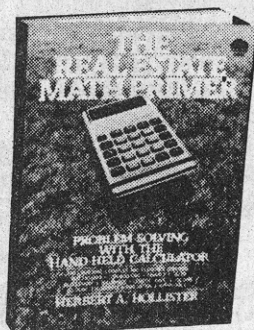
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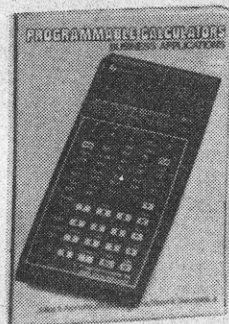
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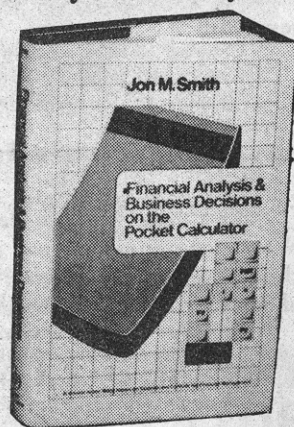
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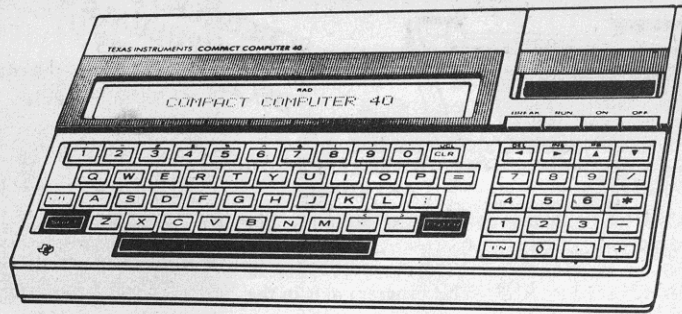
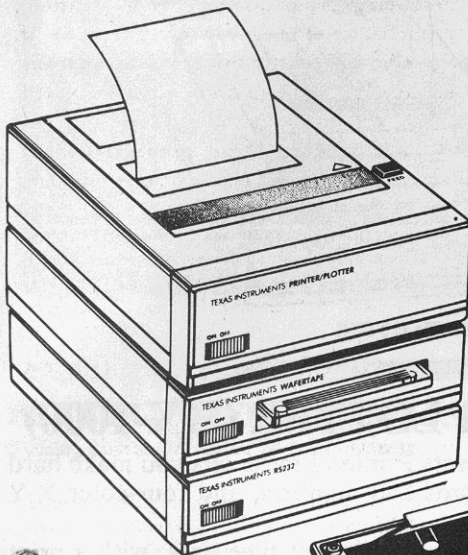
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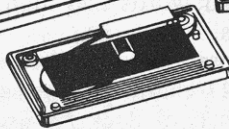
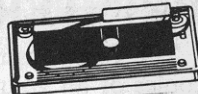
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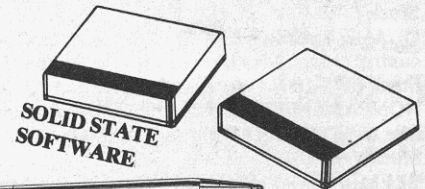


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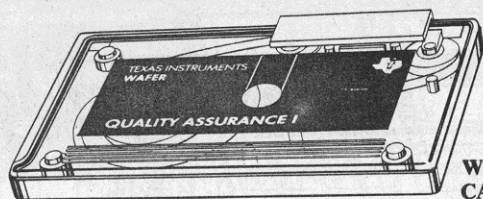
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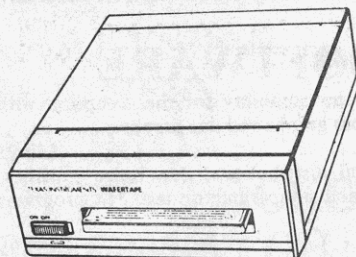
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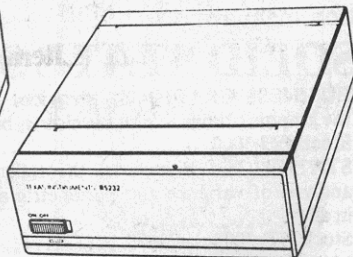
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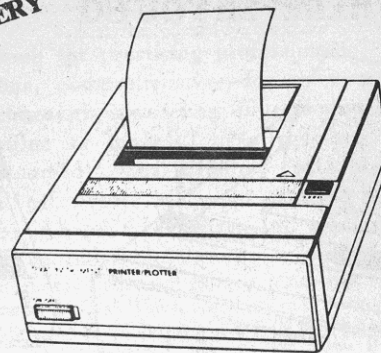
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And with the addition of a modem, you can transmit and receive data over standard telephone lines. This means your TI Compact Computer can exchange information with appropriately programmed host computers throughout the world.

It has a transmission rate of up to 19,200 bits per second, and is powered by standard 120 volt alternating current.

Stock #HX-3000 (RS-232 Interface), List \$99.95 \$85.95

Stock #HX-3000/P (Rs-232 Interface with Parallel Interface Option) \$115.95

ACCESSORIES

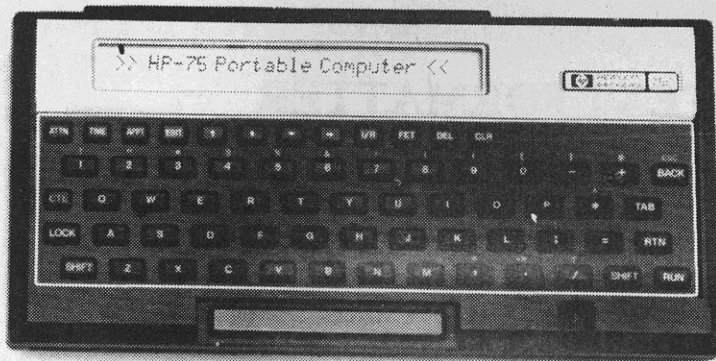
AC ADAPTER for the CC-40 & Wafertape drive, Stock #AC-9201... \$14.95
50 Ft. Blank Wafertape, Stock #WT-50 \$ 7.95
25 Ft. Blank Wafertape, Stock #WT-25 \$ 6.95
10 Ft. Blank Wafertape, Stock #WT-10 \$ 5.95
36 Inch I/O Cable with Hexbus connectors, Stock #HXC-36 \$ 9.95
Paper rolls for Printer/Plotter (5 rolls), Stock #PP-XH1000 \$ 3.29
Pens for Printer/plotter, 1 each Red, Green & Blue, Stock #PEN-100GL \$ 3.95
Pens for Printer/Plotter, 3 black, Stock #PEN-1000BL \$ 3.95

VIDEO INTERFACE (HX-1100)

Stock #HX-1100 (Video Interface) List \$99.95 \$87.95

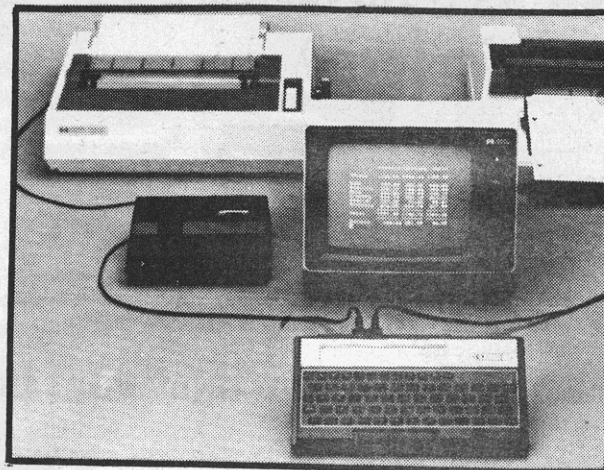
TELEPHONE MODEM (HX-3100)

Stock #HX-3100 (Modem) List \$99.95 \$87.95



BATTERY OPERATED! You can use it anywhere, at home, at the office or in an airplane.

HP-75C Computer



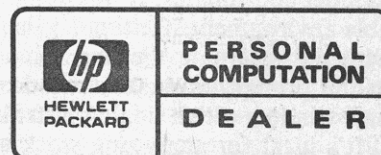
HP-75C PORTABLE COMPUTER

ONE OF THE MOST IMPORTANT INVESTMENTS YOU'LL EVER MAKE!

An HP-75C Portable Computer is a lightweight (26 oz.), battery-powered problem-solver with trim-line dimensions that make it an ideal traveling companion. Packed into the computer are the tools you need to solve expressions, perform immediate data collection and computation, write memos, create files, and more. With 16K bytes of memory, expandable to 24K, there's plenty of room to store information and appointments, write programs, and set alarms. In addition, the HP-75C has three software module ports that enable you to plug in up to 48KB of applications ROM without affecting user memory. The HP-75C's multiple file structure gives you instant access to your most commonly used programs. The computer's touch-type keyboard is typewriter-like for fast data entry and allows you to redefine over 190 different keys and combinations. And, with the built-in card reader, HP-IL interface and extensive HP BASIC, you'll communicate easily with the HP-75C portable computing system, resulting in faster, more informed decisions.

Surrounding the HP-75C is a broad range of hardworking peripherals and enhancements, plus applications software that take the tedium out of problem solving. If you need more space for storing information, simply plug in a memory module or a cassette drive. Add a printer for hard copy output, a plotter for color graphics, even a multimeter for low cost, lab bench applications. Then complement your system with software for solutions in engineering, finance, real estate, and more. And you can write your own BASIC programs. No matter what your computational needs are, the HP-75C can easily adapt.

Because an HP-75C provides information quickly, easily and conveniently, you'll find that this portable computer will be your hardest worker and your most valued tool. You



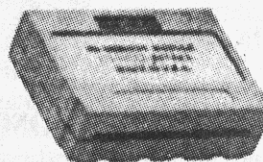
may buy an HP-75C for a specific application, but you'll soon discover it has a thousand uses. In fact, the HP-75C may well be the only portable computer you can't afford to be without.

The HP-75C comes complete with the following: Owners Manual, Reference Manual, Keyboard Overlay Kit, Field Case, Rechargeable Battery Pack, AC Adapter/Recharger and HP-IL Cables.

Stock #HP-75C, List \$995 \$759.95

Stock #HP-75C LIT (Literature only) N/C

8KB MEMORY MODULE (82700A)



The HP82700A Memory Module provides an additional 8KB of user RAM. This module plugs into a slot located inside the battery compartment in the HP-75C.

Stock #82700 (8K Memory Module), List \$195 \$165.95

MODULE SIMULATOR (82713)

This Plug-In Module Simulator (PMS) provides an additional 16KB of extended RAM memory. This Simulator plugs into any of the three ROM ports of a Series 70 computer to provide a maximum of 48KB of extended data and program storage. Special instructions, included with the Simulator, are required to access this memory.

Stock #82713 (16K Simulator), List \$495 \$419.95

VISICALC for the HP-75 (75-15014)



THIS IS THE FIRST AND ONLY PORTABLE VISICALC!

Now you can perform spreadsheet analysis anywhere. It's a complete software solution package with unique file and program capabilities. You identify rows and columns with easy-to-remember names instead of hard-to-remember letter/number coordinates. It was designed specifically for the portable environment. Getting "what if" results is fast and easy with the Alternate Viewing Window. Simply change a value in the primary worksheet window, then move to the alternate window with a single keystroke to review the results.

It's ideal for analyzing stock and bond portfolios, calculating breakeven points, analyzing cash flows, computing depreciation, even for keeping travel expense or billing records. For the Engineer it's a breeze to analyze tabular data gathered in the field, or perform experimental data reduction or engineering design and analysis. In addition it can access the HP-75 function set and application pacs.

This VisiCalc has been 7 years in its production and fits easily into its 32K-byte plug-in ROM.

Stock #75-15014 (VisiCalc), List \$195 \$169.95
Available in July, order now for earliest possible shipment.

DATA COMMUNICATIONS PAK for the HP-75 (75-15035)

OBTAIN STOCK QUOTES OR ACCESS COMPLETE LIBRARIES

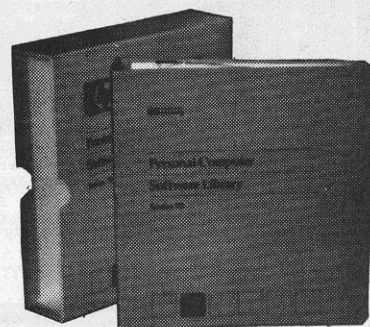
With the DATA COMMUNICATIONS PAC, a modem and the HP-75, you have easy armchair access to other computer systems and to commercial time-sharing systems such as THE SOURCE, Dow Jones News/Retrieval Service, and CompuServe. You can obtain stock quotes, send or receive mail electronically, and access complete libraries of information anywhere, anytime.

Menu-driven command set lets you access commands with a single keystroke. An editor is available to add, delete, change, or list code words.

Stock #75-15035 (Data Communications)

List Price \$145 \$129.95
Complete with owner's manual, quick reference guide, and 3 prerecorded magnetic cards. Available in July.

TEXT FORMATTER for the HP-75 (75-15019)



CREATE MEMOS, LETTERS AND REPORTS, ANYTIME AND ANYPLACE.

With the TEXT FORMATTER you have word processing power at your fingertips. You can prepare rough drafts or finished reports, review and edit notes for next-day presentations, write travel reports, business reports, or catch up correspondence. And you can do it anywhere—just think of the time that won't be wasted.

The TEXT FORMATTER is the perfect complement to the HP-75's built-in text editing capability. It lets you weed out typos, search for words, insert or delete characters, words, or blocks of text. In addition you can define paragraphs, set headings, number pages and justify text.

The TEXT FORMATTER'S command set is easy to learn, use, and remember. You can store up to six pages in the HP-75's 16K RAM, and up to ten pages with the optional 8K Memory Module.

Complete with owner's manual, quick reference guide, keyboard overlay and 2 prerecorded magnetic cards.

Stock #75-15019 (TEXT FORMATTER)

List \$95 \$84.95

FORTH for the HP-75C

A NEW PROGRAMMING LANGUAGE



FORTH is your answer if you want something more than BASIC for your HP-75C. It is more than 8 times as fast; it's compact and interactive, Reverse Polish (RPN) and stack oriented. Plus it opens up the 75C for machine-language programming with an assembler/disassembler. You can do your own LEX files for RAM, PMS or ROM. You have direct control over the HP-IL, LCD, keyboard and other I/O. And you have a whole new world of software available from a very active FORTH community.

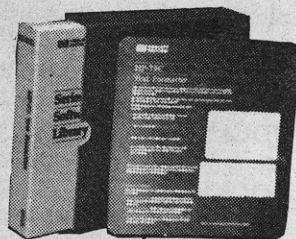
60p Manual includes complete Source Listing (where is that with BASIC?), glossary of every FORTH word, many useful utilities like high-level trace and full screen editor, as well as source code for these programs.

If you have further questions, please call John Cassidy at (415) 763-6636.

Stock #A-515 (HP-75C Forth-cassette tape)

List \$150 \$129.95

MATH PAC for the HP-75 (75-15015)



INCLUDES DEFINITE INTEGRALS AND FAST FOURIER TRANSFORMS

The Math Pac was designed to solve a wide range of mathematical problems. Its function set consists of a group of easy-to-learn BASIC commands that range from simple numeric and string functions to a sophisticated polynomial root-finder. These commands are instantly available for your programs or for direct execution in the computer's calculator mode.

All functions and operations are written in assembly language for fast and accurate results. You can select integer or decimal precision or full-floating decimal to display results.

The function set includes:

Real Scalar functions

Base conversions

Solution to $f(x) = 0$

Fast Fourier Transform

Complete set of complex functions

Sophisticated polynomial root-finder

Definite integrals

Extensive real and complex matrix operations

Convenient input and output of arrays

Explicit and implicit array redimensioning

Stock #75-15015 (MATH PAC), List \$145 \$129.95

Complete with owner's manual and quick reference guide.

Available in July, order now for earliest possible shipment.

SURVEYING PAK

for the HP-75

(75-15012)

YOUR COMPUTER NOW BECOMES YOUR DATA-GATHERING DEVICE

This application pac gives you one integrated program that easily handles your routine surveying calculations and more. Calculations may be made in the field or at the office, it's up to you. Typical calculations include traversing, inverting, coordinate geometry, curve layout, and radial stations.

It has a unique system that lets you enter data in a variety of ways: by using bearings, north and south azimuths, angles left or right, and horizontal deflections left or right. You can choose any of these input modes independently of the output mode desired.

This friendly, menu-driven system eliminates the need to memorize commands or to use keyboard overlays. Descriptive prompts guide you through each function. If a mistake is made, the system displays an error message and allows reentry of the data.

Stock #75-15012 (SURVEYING PAK)

List \$295 \$259.95

Available in August, order now for earliest possible shipment.

HP-75C Computer Continued

HP-75C SOLUTION BOOKS

Electronics	Stock #75-13008	\$35.00
Finance	75-13009	35.00
Games I	75-13006	35.00
Games II	75-13007	35.00
I/O Utilities	75-13013	35.00
Math I	75-13003	35.00
Math II	75-13004	35.00
Math III	75-13005	35.00
Real Estate	75-13010	35.00
Statistics	75-13011	35.00
Test Statistics	75-13012	35.00
Mass Media Duplication	75-13015	35.00
Graphics	75-13016	\$45.00

All solution books come complete with magnetic cards

NOTE: All HP-75 Solutions Books are available recorded on mini-data cassettes for an additional \$12.00 each.

TAKE A MEMO for the HP-75

by Mann Associates

This text formatter includes lots of Graphics commands for your HP-75. In addition to preparing or revising documents, it includes such commands as tabs, decimal tabs, indents, centering, underlining, bold, expanded, or compressed type. Graphics include superscripts, special symbols and rules. Additional features include the ability to insert the date and time from the HP-75 internal calendar, automatic page numbering and global searches and replacements in documents.

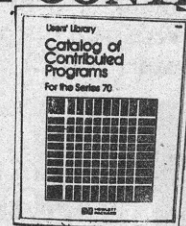
It is complete with prerecorded program cards, user manual and quick reference card.

Stock #A-521 (Take a Memo), List \$60 \$49.95

CATALOG OF CONTRIBUTED PROGRAMS

for Series 70

Computers



This is a sister publication to the Catalog of Contributed Programs for the HP-41. Both user-contributed and HP contributed programs are represented. Computer owners are encouraged to participate. Subjects range from Psychology to Differential Equations and currently number over 100. Program Documentation costs are typically \$6.00 per program.

Stock #75-9444 \$3.95

PERIPHERALS

SEE HP-41/HP-75 PERIPHERALS on page 6, 7 and 8

Digital Cassette Drive, Thermal Printer/Plotter, Video Interface, Impact Printer, A/O Interface, Acoustic Coupler, RS-232 Interface, Video Monitor, Etc.

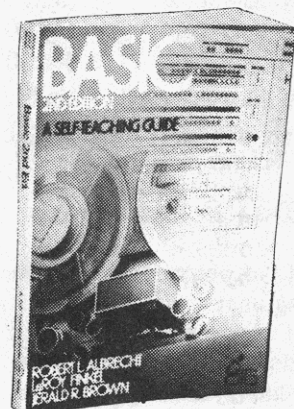
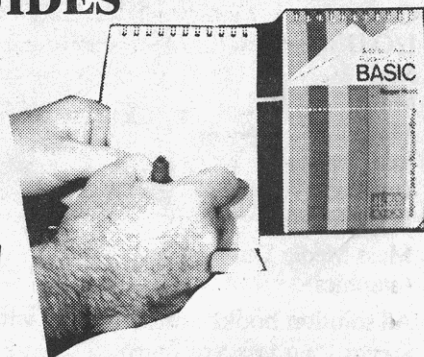
MISCELLANEOUS

Stock #75-90004, HP-75 (Reference Manual) \$10.00

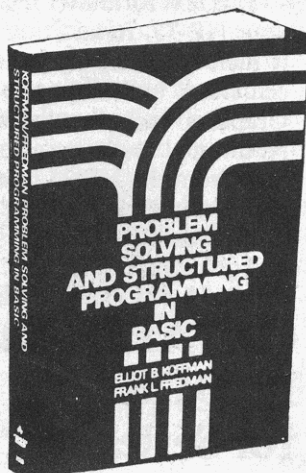


Computer Programming

POCKET GUIDES

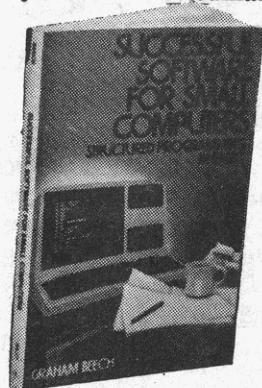


BASIC (second edition) by Albrecht/Finkel/Brown



PROBLEM SOLVING AND STRUCTURED PROGRAMMING IN BASIC

by Koffman/Friedman



SUCCESSFUL SOFTWARE FOR SMALL COMPUTERS

by Graham Beech

A BIT OF BASIC

by Dwyer/Critchfield



You can use any one of these as a memory jogger. It's a concise reference and complete description for the main language features — yet it fits right in your pocket. It is complete — even has examples — so you can use it as your first text.

SPECIAL OFFER - Choose any 2 for only \$12.50.

POCKET GUIDE TO PROGRAMMING

Stock #C-149, Addison-Wesley, 62p, wire-bound \$7.25

POCKET GUIDE TO BASIC

Stock #C-158, Addison-Wesley, 60p, wire-bound \$7.25

POCKET GUIDE TO FORTH

Stock #C-173, Addison-Wesley, 55p, wire-bound \$7.25

POCKET GUIDE TO FORTRAN

Stock #C-174, Addison-Wesley, 54p, wire-bound \$7.25

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POCKET GUIDE TO WORDSTAR

Stock #C-175B, Addison-Wesley, 55p, wire-bound \$7.25

POCKET GUIDE TO CP/M

Stock #C-175C, Addison-Wesley, 58p, wire-bound \$7.25

POCKET GUIDE TO PASCAL

Stock #C-175P, Addison-Wesley, 57p, wire-bound \$7.25

You can use this "self-teaching guide", just as tens of thousands already have, for a fast and thorough introduction to computer programming. You will learn how to use your computer as a tool, at home or the office, in any field from Education to Business to the Humanities. You'll need no special math or science background to read, write and understand programs in BASIC.

Stock #C-187, Wiley, 325p, softbound \$12.95

If you want your BASIC delivered in the same way as other high-level programming languages, here's your text! This is NOT a manual — it is a serious tool for software development, a stepping-stone to computer science. Concentrates on demonstrating problem-solving and programming techniques right from the beginning — through numerous solved problems and example programs taken from a variety of application areas. Minimal math background is assumed, can be used with any version of BASIC.

Stock #C-179, Addison Wesley, 420p, softbound \$18.95

You no longer have to be a computer pro to design dependable, efficient, even elegant programs for your micro. If you have working knowledge of BASIC, this clear, practical guide will give you the techniques of structured programming — Data Structures, Files, Sorting, Simulations, Computations. You'll learn quickly how to use these in Business, Scientific and Educational applications. How to translate programs into Pascal, COBOL or other languages. Illustrative examples and problems with solutions.

Stock #C-181, Wiley, 182p, softbound \$14.95

The first three chapters of the authors' successful *BASIC and the Personal Computer* have been excerpted here to give readers a "crash course" in BASIC. As they do in *BASIC and the Personal Computer*, the authors briefly examine what personal computing is all about, give an eight-hour lesson in BASIC programming, and demonstrate simple computer graphics. A fourth chapter explains the most useful features of advanced BASIC.

Stock #C-161, Addison-Wesley, 184p, softbound \$7.95

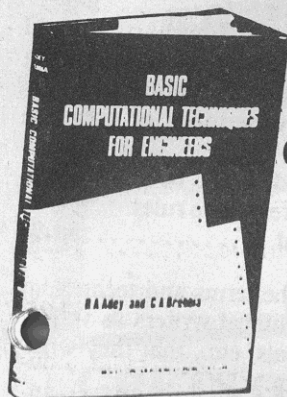
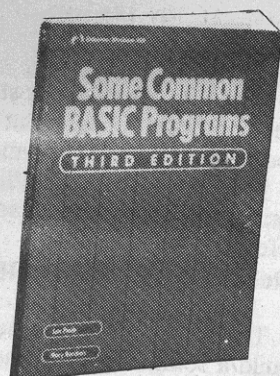
Stock #C-220, Osborne, 181p, softbound \$15.95

Stock #C-219, Osborne, 171p, softbound \$16.95

VISICALC HOME AND OFFICE COMPANION
PRACTICAL BASIC PROGRAMS

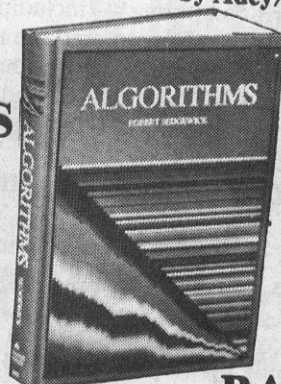
SOME COMMON BASIC PROGRAMS, (Third edition)

by Poole/Borchers



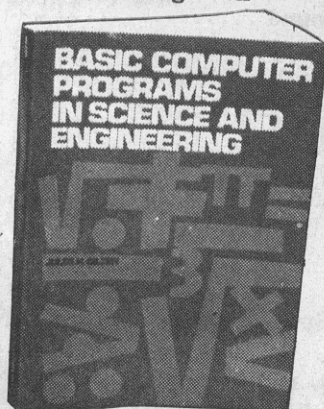
BASIC COMPUTATIONAL TECHNIQUES FOR ENGINEERS

by Adey/Brebbia



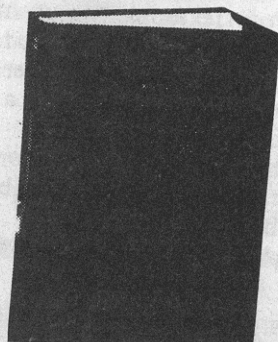
ALGORITHMS

by Robert Sedgewick



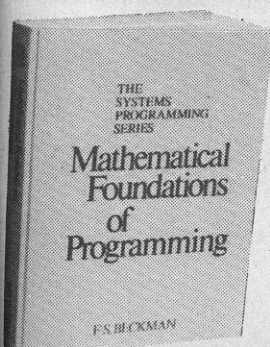
BASIC COMPUTER PROGRAMS IN SCIENCE AND ENGINEERING

by Jules Gilder



MATHEMATICAL FOUNDATIONS OF PROGRAMMING

by Frank Beckman



Computer Programming Continued

20 Financial, 23 Math/Trig/Roots, 5 Matrix, 19 Statistical, 9 Miscellaneous — here are the most common calculations and subroutines you'll ever need. This book does not teach BASIC — instead, you may simply copy the program listings into your computer, then run the programs as illustrated in the examples.

Stock #C-183, McGraw-Hill, 195p, softbound \$14.95

You'll find this book uniquely easy to use—for reference or for learning. Though it covers the latest methods most used by engineers, these math techniques are described by engineers to engineers.

Fundamentals of Matrix Algebra, Solution of Linear Systems, Eigenvalue/Eigenvector Problems, Numerical Differentiation/Integration. You get a comprehensive library of Fortran IV programs, too, so you can use these techniques right away in your work.

Stock #E-180, Wiley-Interscience, 208p, hardbound . . \$24.95

Here you can learn the techniques fundamental to becoming a serious computer user — or have reference to a number of computer implementations of useful practical algorithms. Forty chapters in seven groups: mathematical algorithms, sorting, searching, string processing, geometric algorithms, graph algorithms, and advanced topics (the FFT and simplex methods are covered).

You'll need to be conversant with a modern programming language and to have a comfortable understanding of modern computer systems, 400 exercises are offered.

Stock #M-177, Addison Wesley, 552p, hardbound . . . \$28.95

Upgrade your machine with this instant software library of 114 frequently used math and EE programs — save time and money. Covers General, Engineering, Complex, Matrix and Statistical Math — Basic Electricity and Electronics — Design of Circuits, Active and Passive Filters, and Attenuator Pads — Communications.

These programs represent about 100K of code, so they'll all fit on one floppy disc. Can be used on virtually any home computer with little or no modification.

Stock #C-172, Hayden, 247p, softbound \$11.95

This is a tough, fat text from Princeton — but it has what you need if you want numerical solutions to PDE's. You'll find here the essentials of every numerical method that is used extensively today. Engineering authorship eliminates math jargon.

Classical finite-difference methods; finite-element, collocations, and boundary-element procedures; parabolic, elliptic and hyperbolic equation-types.

Stock #C-186, Wiley, 677p, hardbound \$44.95

A delightful "intelligent layman's" guide to concepts and results — detailed enough for reference use by novices, programmers, and computer scientists. Its subject areas are math logic and foundations, computability and recursive function theory, formal linguistics and automata theory. Obviously one book cannot cover all this with mathematical depth. But students in such courses may find in it a perspective or emphasis from more rigorous treatments.

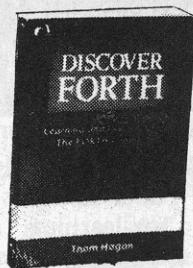
Here the authors are concerned with telling you **what these subjects are about**, rather than giving a rigorous self-contained exposition. No knowledge of calculus or college math is assumed, although some mathematical maturity is needed. There are exercises, and the reader must be familiar with the art of programming.

Stock #E-127, IBM/Addison-Wesley, 443p, hardbound . \$26.95

Computer Programming Continued

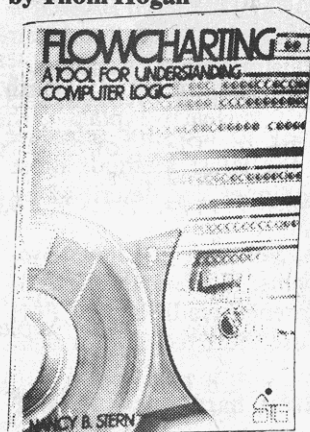
DISCOVER FORTH

by Thom Hogan



Have you heard horror stories about FORTH — perhaps it is not a program language but a religion? Yet there is speed enough for realtime applications and it requires little computer support. If you're a beginner you'll get an introduction here — and a serious programmer already using FORTH will get a useful reference work.

Stock #C-184, McGraw-Hill, 145p, softbound \$14.95



FLOWCHARTING

by Nancy Stern

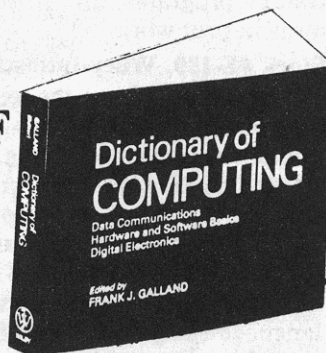
Teach yourself logic by using program flowcharts. You'll build a sound working knowledge of logic by actually drawing many flowcharts — then comparing them with established guidelines, you'll also learn how to solve a wide range of common data-processing problems.

When you have this solid background, you'll be able to program in any language just by learning a few basic rules.

Stock #C-185, Wiley, 340p, softbound \$9.95

DICTIONARY OF COMPUTING

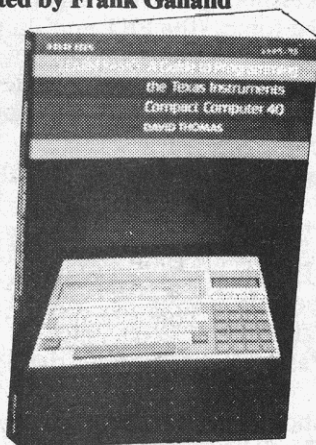
Edited by Frank Galland



For all of us who have to deal with the terms and technology of modern computing — including technical writers as well as those of us who have to read the manuals, etc., that they write, or teach about them, or learn about them.

Compiled by both British and American experts, it covers Data Communications, Hardware and Software Basics, and Digital Electronics.

Stock #C-182, Wiley, 330p, softbound \$19.95



LEARN BASIC

by David Thomas

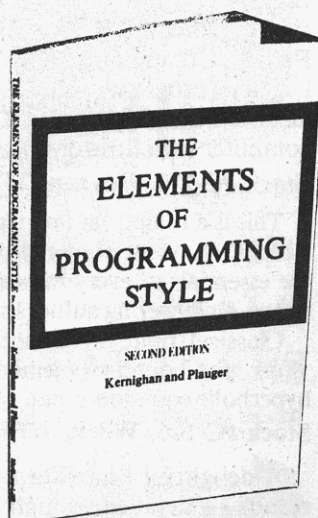
Here is your guide to Programming the Compact Computer40 by Texas Instruments—and it is ALL YOU NEED.

28 easy-to-follow lessons with review exercises, plus answers, for people who want to learn BASIC fast and have no previous computer experience. You begin learning immediately, and you study many useful programs — in Engineering, Science, Business, etc.

Stock #C-189, McGraw-Hill, 213p, softbound \$9.95

THE ELEMENTS OF PROGRAMMING STYLE

(SECOND EDITION)
by Kernighan/Plauger

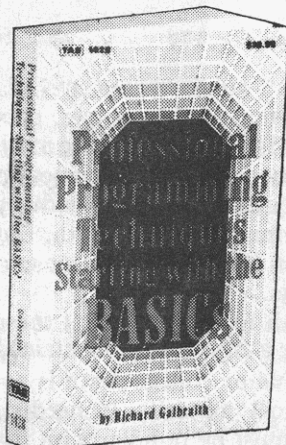


If you know how to program, you're ready to learn how to program in good style — so you and others can read it later, so you can debug, so you can reuse your own sub-routines.

This book is a study of a large number of "real" programs (all from textbooks!), each of which provides a lesson in style. Shortcomings are discussed, the program is rewritten in a better way, and then a general rule is drawn from the specific example. Thus this book is a supplement to any programming course, or a refresher.

These examples are in Fortran and PL/I. The principles of style, however, are applicable in all languages, including assembly codes.

Stock #C-190, McGraw-Hill, 160p, softbound \$15.95



PROFESSIONAL PROGRAMMING TECHNIQUES STARTING WITH THE BASICS

by Richard Galbraith

Get more out of your computer than is possible using pre-packaged programs! This logical, easy-to-follow approach to learning computer programming uses the step-by-step building block procedures practiced by professionals. No advanced math knowledge or prior programming experience is necessary. A computer that uses BASIC is suggested.

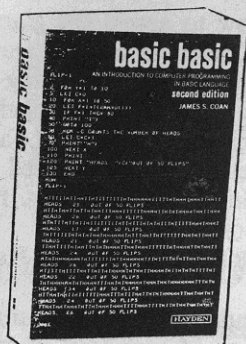
Stock #C-218, TAB, 301p, softbound \$10.95

SCIENCE & ENGINEERING SOURCEBOOK

Stock #C-144, Spectrum, 96p, softbound \$9.95

Basic BASIC

by James Coan



Computer Programming Continued

You can learn how to write computer programs in BASIC. Here's a thorough introduction, clearly written and well-organized.

Over 100 sample programs illustrate essential techniques from the beginning and integrate programming with math. Each BASIC statement or capability is clearly explained the first time it is used in a sample program. Plenty of practice problems, with solutions to the even-numbered ones.

Stock #C-207, Hayden, 256p, softbound\$12.95

Extend your expertise in BASIC with these advanced techniques and applications. Your understanding and your ability to handle each topic will increase gradually — from simple to more sophisticated problems.

Review of Elementary BASIC, Extended Features, Strings and Files, Applications are given to coordinate Geometry, Axes, Sequences and Series, Polynomials, Graphing, Simulations and Games. Summaries and Exercises with each section.

Stock #C-208, Hayden, 192p, softbound\$12.95

Write faster, more effective programs — use these secrets of professional software authors.

Proven methods for Testing, Editing and Debugging programs. How to improve program execution time, handle files more efficiently and easily and to format your programs for easier use and reference.

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This is a step by step guide to all the aspects of designing a complex microcomputer program — written in layman's terms so it requires no previous knowledge of a programming language. In addition to a complete set of professional techniques for developing design skills, it includes summary lists of development tools, illustrations, and a complete glossary of terms for quick reference.

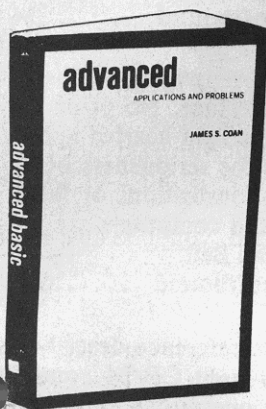
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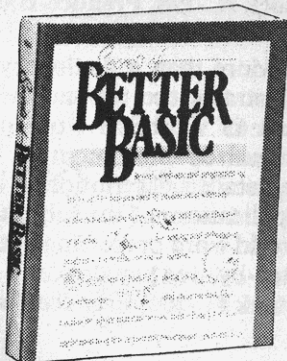
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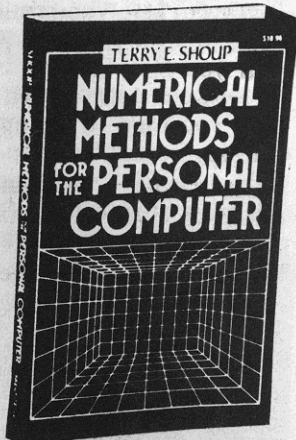


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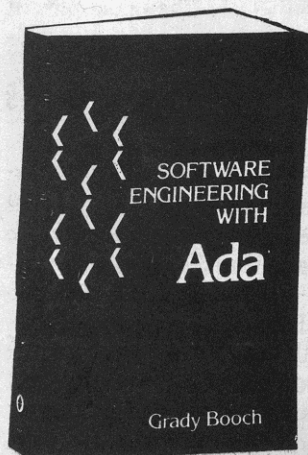
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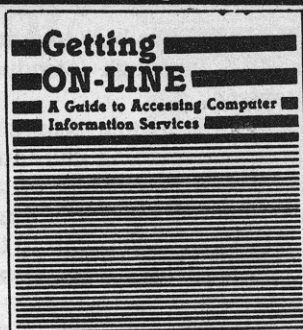
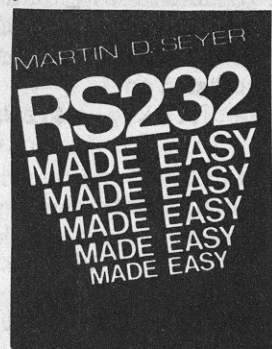
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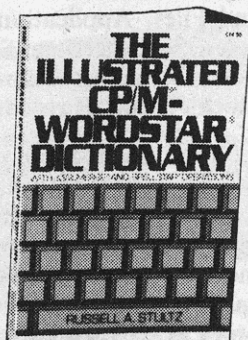
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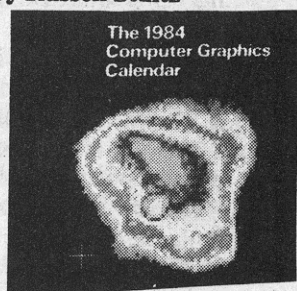


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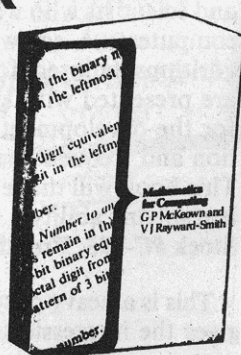
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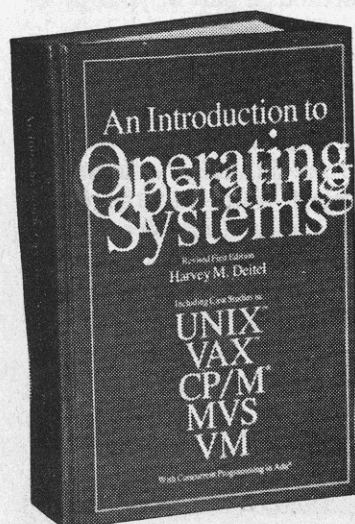
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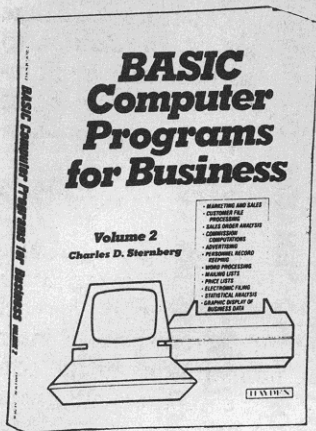
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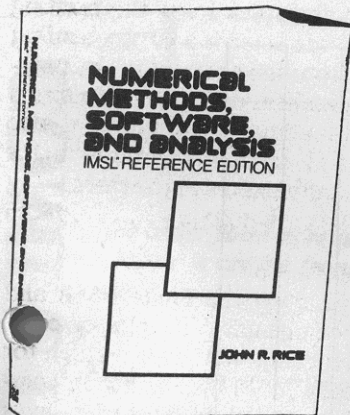
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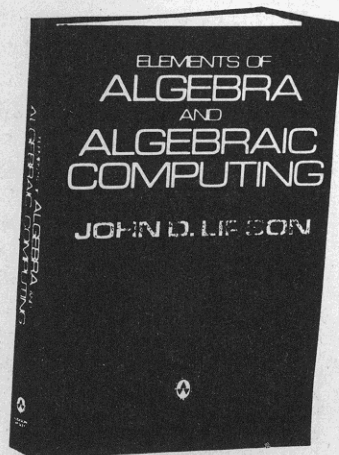
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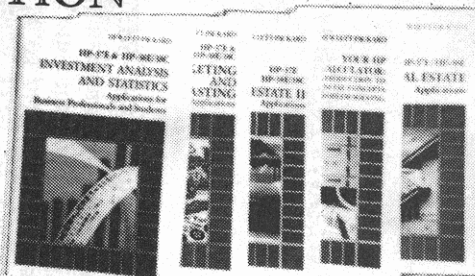
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