# The HP 48 Catalog

## *of Independently Developed Products*

*December 1995*

- Books
- Classroom displays
- Math and Science cards
- Navigation software
- Graphics software
- Engineering software
- Leather cases
- Memory cards
- Surveying software
- User groups

And much more! *See inside* ➠

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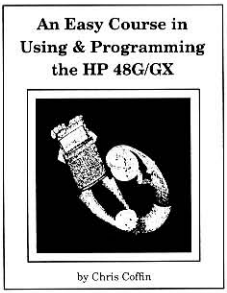
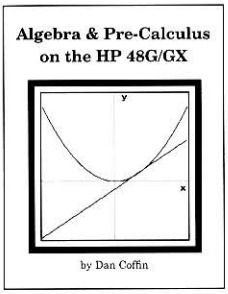
# Learn to use your HP 48G/GX quickly!

## An Easy Course in Using and Programming the HP 48G/GX




It's a true Grapevine *Easy Course*: First, learn problem-solving with matrices, complex numbers, vectors, units, algebraic objects, etc.—all with examples, illustrations, and clear explanations. Next, begin simple programming, with looping, branching, flags, etc. Then program with built-in applications, such as SOLVE. Finally, design your own applications—directories, custom menus, the works! If you read just one book, this is it!

***Easy Course in Using & Programming the HP 48G/GX.....$19.95***




## Algebra & Pre-Calculus on the HP 48G/GX

Grab your calculator, grab this book, and you're all set for math class. You'll get lots of lessons, examples and advice on graphing and problem-solving with these (and more!):

- Functions: Linear, quadratic, rational, polynomial
- Trig • Coordinate and analytic geometry • Conics
- Equations of lines & planes • Inequalities • Vectors
- Great programmed tricks and tips for plotting and solving
- Written by an experienced classroom math teacher.

***Algebra & Pre-Calculus on the HP 48G/GX.....$19.95***

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- Limits, series, sums • Vectors and gradients
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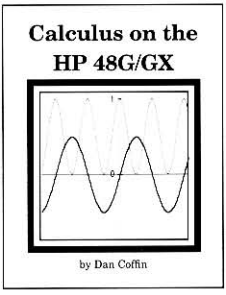
- Integration: Definite/indef., improper, parts, vectors
- Rates, curve shapes, func. averages, constraints, gr./decay force, vel., accel., arcs, revol., surfaces, solids, and more!

***Calculus on the HP 48G/GX.....$19.95***



## Graphics on the HP 48G/GX

Here's a "must-have" if you want to use the full potential of that big display on your HP 48G/GX. This book shows you how to build graphics objects ("grobs") and how to use them to program and customize displays with diagrams, pictures, and data plots. First, the book offers a great in-depth review of the built-in graphics tools. Then you build your own grobs and combine them in programs for impressive HP 48 graphics.

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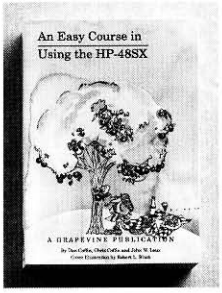
Here is another Easy Course in true Grapevine style. Because there's no jargon to wade through, you get right to calculating, quickly and easily. ***An Easy Course in Using the HP 48S/SX*** is a self-study course, full of examples, diagrams, and self-quizzes. First, the book explains the keyboard, stack and menus, and how to build and use the various kinds of *objects*:




- Real Numbers • Complex Numbers • Units • Lists • Tags
- Vectors • Arrays • Flags • Binary Integers • Names
- Algebraics • Directories • Programs • Character Strings

Then you learn how to use the various tools on those objects:

- Math • Algebra • Calculus • Units • Statistics
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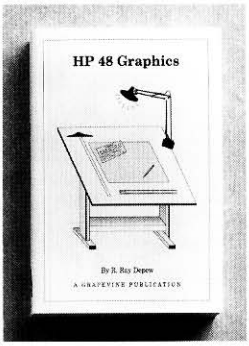
***An Easy Course in Using the HP 48S/SX.....$19.95***

# Hot graphics on the HP 48S/SX

Here's a "must-have" if you want to use the full potential of that big display on your HP 48S/SX. Written by HP engineer Ray Depew, this book shows you how to build graphics objects ("grobs") and how to use them to program and customize displays with diagrams, pictures, and data plots.

First, the book offers a great in-depth review of the built-in graphics tools. Then you build your own grobs and combine them in programs for some very impressive HP 48 graphics.

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Run your programs at incredible speed! For serious programmers, here are the inside secrets you've been looking for. After a quick introduction to the HP 48S/SX, you learn all about machine language—what it is and how it works. Then you get some 60 useful machine language program examples—everything from utilities to math to games. Extensive appendices list number tables, error messages, machine language instructions, all user-level instructions and objects, glossary, index.

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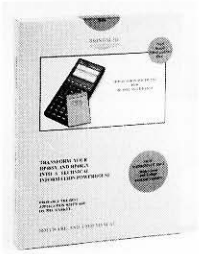

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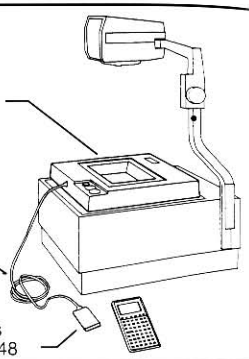


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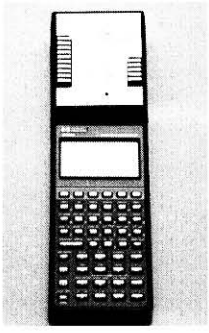

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Imagine using your HP 48 to read and control real-world devices! Read in sensor signals such as temperature, pressure, pH, current or voltage. Control lamps, relays and motors. Monitor and control a laboratory process. All under the control of the HP 48.

Rugged, portable, battery-operated A-to-D converter and I/O controller. Easy to use—no cables—uses the 48's IR link. Provides four analog inputs (8-bit), four digital inputs (TTL), four digital outputs (.5A). Uses include data logging, instrument prototyping, experimentation, research, education, etc.

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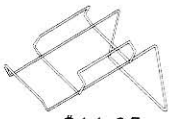
Model AB



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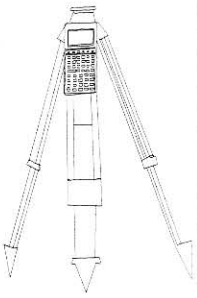
*This holder has a clip added to the AB model to allow the user to mount it onto a tripod. Simply reverse the calculator in the holder and clip it on.*

*These holders are made of wire. The wire may be bent to satisfy many other applications.*



## Compound Interest CRS or CRG for your HP 48

CRS or CRG for HP 48SX or GX includes a **complete** set of 5 four-variable equations (plus a sixth check equation). Programs provide direct algorithmic solutions for either of 2 unknowns under each of 3 different protocols, given 3 variables from any one of the 5 equations. Includes amortization and documentation routines as well as 2 interconversion functions (periodic P to true APR and vice versa). The programs implement financial algorithms that are alternatives to the "nominal annual" interest rate convention that is common to US financial markets and certain transactions that must meet disclosure regulations. Those concerned with more "truth" than is currently implied by "nominal APR" may find CRS or CRG useful. ***Price: $50 plus $ 3 sales tax.***

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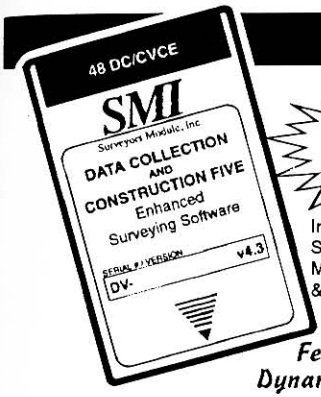


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*Featuring: Dynamic Memory*

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**Slope stake in *1/4* the time and with *1* less person**

You no longer need to stake the centerlne before you:

Set slope stakes - Set blue tops - Collect cross sections - Stake points by station and offset

You no longer need to worry whether you are in a tangent, simple curve or spiral curve . . .

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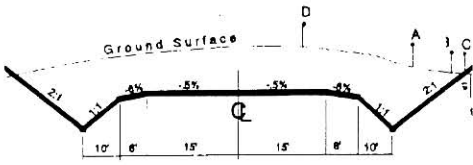
*SMI Software* displays after each shot specific information for the point at the prism.

*SMI* Construction V Software is so smart - it's simple!




STA 10+00

Road Cross Section Design Template

**Construction V** can turn a large construction job into an easy task. It handles setting grade stakes, slope stakes, bluetops, staking center lines, side lines, boundary points, and collects data, including cross sectional data, easily and efficiently.

With **Construction V** several construction sites may be contained simultaneously in an HP 48, and within a site several chains may exist (spurs, laterals, cloverleaf sections, etc.); the HP 48 may contain control data for road sections many miles long.

**Construction V** allows the use of station and offset or point numbers, whether staking or collecting data. It greatly reduces the time to do field work - a job which would take 3 - 4 days with conventional methods can be done in one day with **Construction V.**

This program permits you to work with tangents, simple curves and spiral curves in the horizontal control. In vertical control it allows you to work with percent slopes, vertical curves, or vertical break points. The template handles several sophisticated functions: super elevations, changes in road width, flat ditch bottoms, etc. **Construction V** automatically interpoiates between templates.

For more information and a complete brochure call today.

**Wherever you take a shot SMI Software knows where you are!**

In the road cross sectin template shown A,B,C and D represent shots taken with the rod from the instrument. Take a shot at A and the SMI Software knows you are in a cut section, and the you are outside the shoulder. It gives station, offset elevation, slope to the ditch bottom. It also gives the cut to the shoulder and to the ditch bottom Last it gives the out (or in) distance to the catch point. the second shot you take gives similar information except this time the slope of the ground is computed from A to B and you are given the "slope distance" to "C" (the catch point)

**If you take a shot inside the shoulder of the road such as at "D" in the illustration, you get blue top information:** Station, offset, elevation and cut or fill to the grade.

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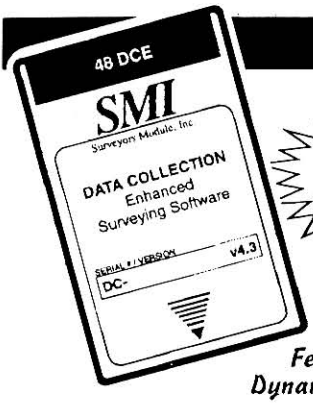


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Software ONLY $1,000.00

Includes: Software card, Manual, Overlay & Video

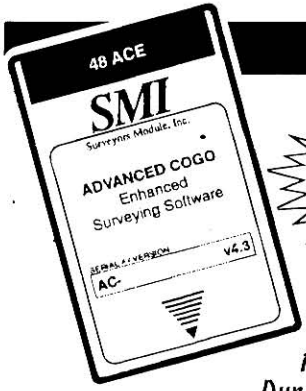
*Featuring: Dynamic Memory*

One of the outstanding features of this package is the ability to set the program to operate the way the surveyor wants to work. Some features which can be turned on of off are: notes, codes, elevations, consecutive point numbers, earth's curvature, or raw data. Other optional settings are: setting the fix point output, setting angle turning tolerances, south azimuth on, or choosing between azimuth or angle right survey.

**48 DCE Data Collection Enhanced . . .** is one of the most powerful software programs on the market today, interacting with your electronic total station to perform almost any field survey function required.

The DCE is the most flexible and user friendly data collection module for the HP 48 on the market today.

For more information call today!




# 48 ACE Advanced Coordinate Geometry Enhanced

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There is an angle adjustment program which adjusts the angles of a traverse while holding the angles to the side shots constant. The compass rule program will adjust side shots as well as traverse points.

Two-point resection allows the user to set up anywhere in view of two control points, enter readings to those points, get a precision, and store the instrument coordinates. The HP 48 can now manually collect data or stake points from this new position.

The 48 ACE contains a program that will transfer an elevation from a benchmark to the instrument.

Trig leveling allows meaning the direct and reverse to a point; mean reciprocal leveling is also possible from the other end of the line.

An offset program stores points at an offset distance from a series of lines — used when you shoot the road centerline and want to immediately stake the road sideline, curb line, or a building offset line.

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**48 SCE Standard Coordinate Geometry Enhanced . . .**
has COGO power second to none including 3D surveying earth curvature and refraction and a built-in sunshot program with its own ephemeris and computes astronomic or grid north.

The 48 SCE is the second step up in the SMI family of surveyor designed programs.

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**48 BCE Basic Coordiante Geometry Enhanced . . .**
is a lot of power at a very affordable price to introduce you to the SMI family of products. The 48 BCE is extremely easy to use in such functions as: inverse, traverse and side shot,

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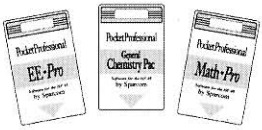


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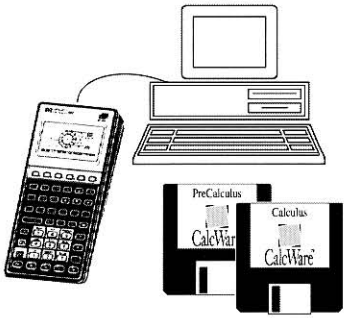


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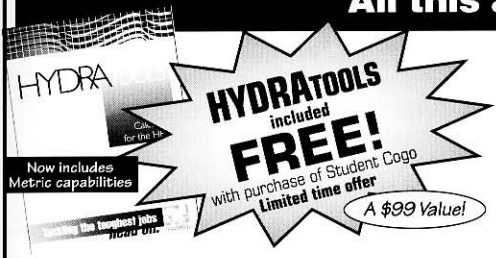


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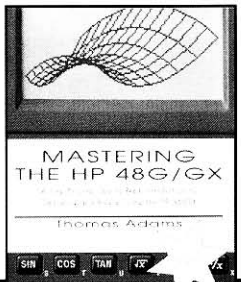


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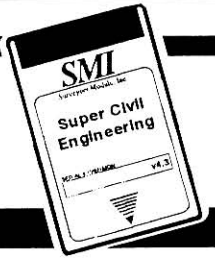


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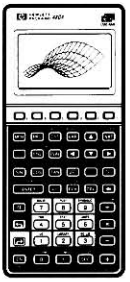

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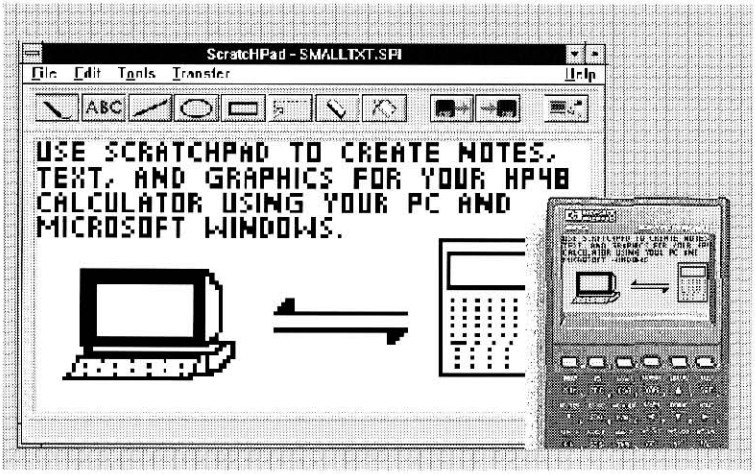


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