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of Independently Developed Products



March 1995

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

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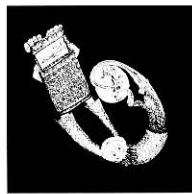
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Here is an *Easy Course* in true Grapevine style: Examples, illustrations, and clear, simple explanations give you a real feel for the machine and how its many features work together.

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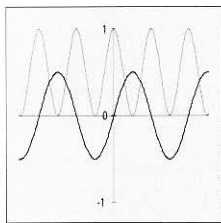
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An Easy Course in Programming the HP 48G/GX



by Chris Coffin

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by Dan Coffin & Jim Donnelly

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- Functions: Linear, quadratic, rational, polynomial
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by Ray Depew

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. 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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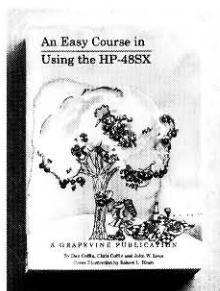
First, the book explains the keyboard, stack and menus, and how to build and use the various kinds of *objects*:

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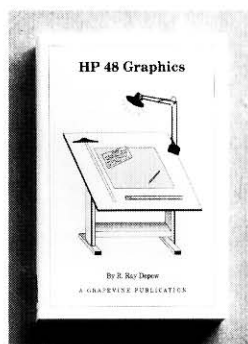


Hot graphics on the HP 48S/SX

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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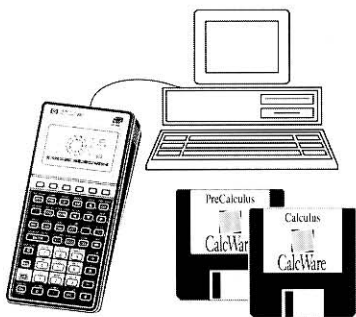
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Slope stake in 1/4 the time and with
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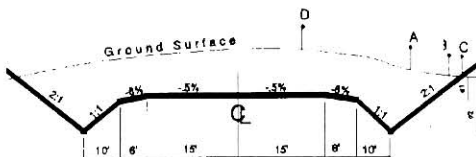
You no longer need to stake
the centerline before you:

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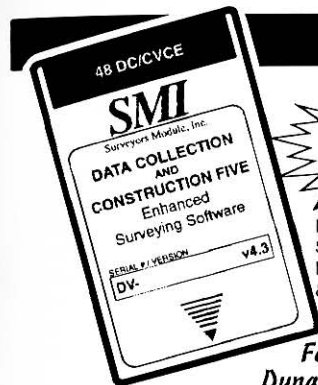
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You need not know whether you are in a super
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SMI Software displays after each shot specific
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Road Cross Section
Design Template



Software
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Includes:
Software card,
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Featuring:
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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 interpolates 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 section 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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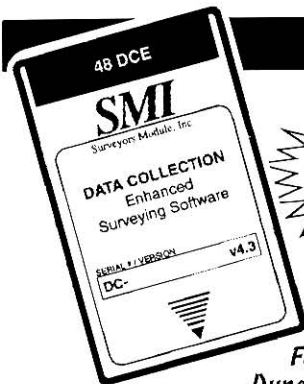
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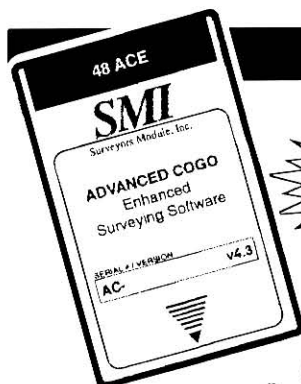
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One of the outstanding features of this package is the ability to set the program to operate the way the surveyor wants to work. Some features which can be turned on or off are: notes, codes, elevations, consecutive point numbers, earth's curvature, 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.

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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

48 ACE Advanced Coordinate Geometry Enhanced

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.

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

48 BCE Basic Coordinate Geometry Enhanced



Software
ONLY
\$150.00

Includes:
Software card,
Manual, Overlay
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48 BCE Basic Coordinate Geometry Enhanced . . .

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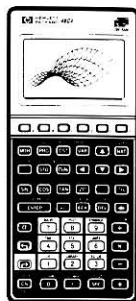
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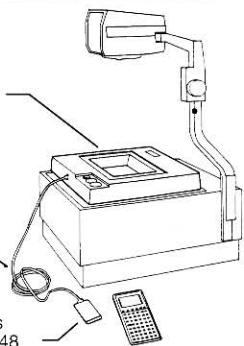
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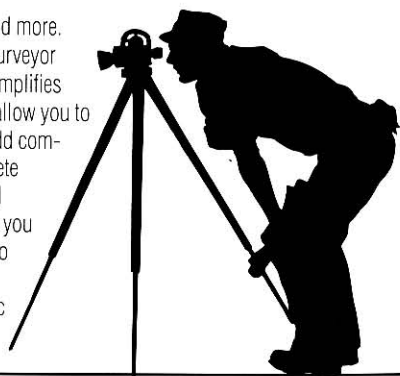
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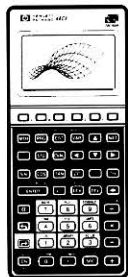
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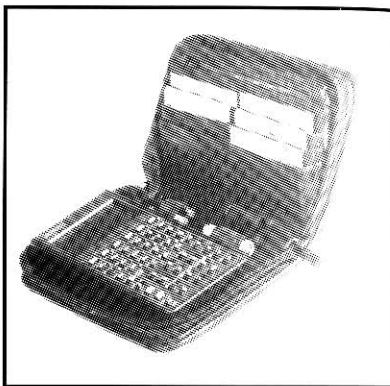
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