The HP 48 Catalog

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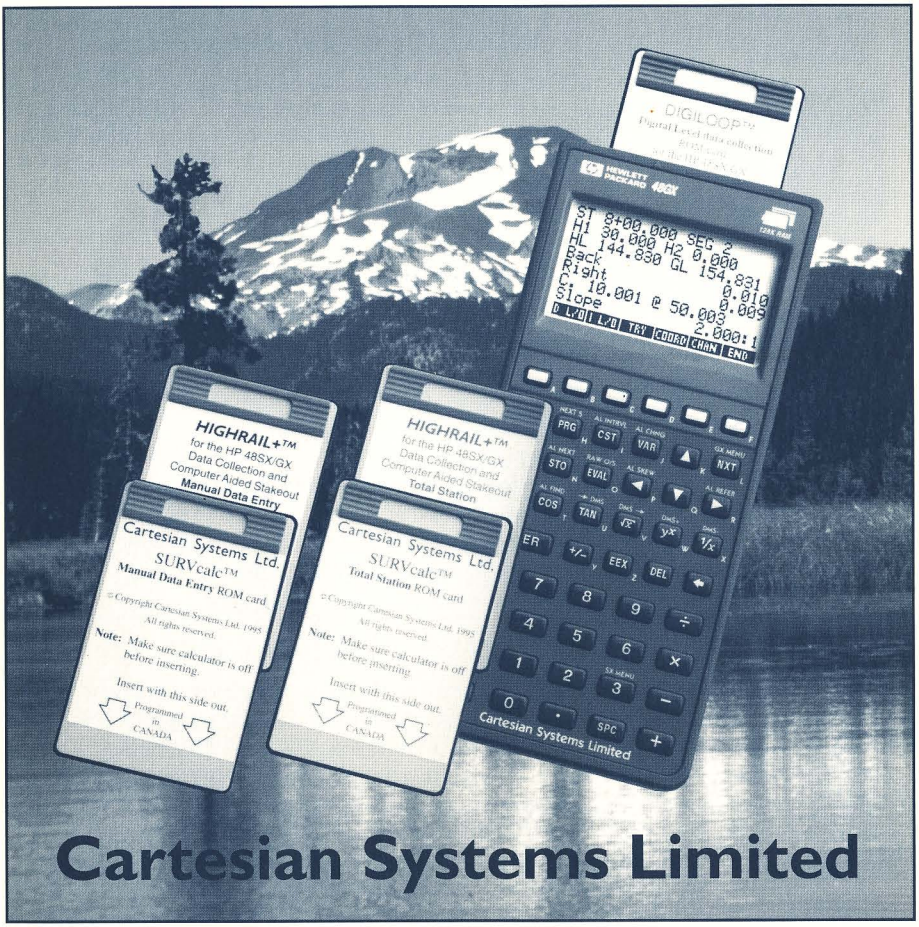

March 1997

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

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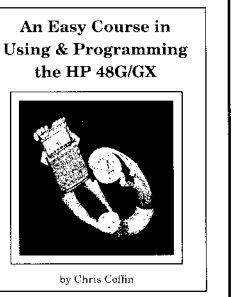

It's a true Grapevine *Easy Course*: First, learn problem-solving with matrices, complex numbers, vectors, units, algebraic objects, and more—with examples, illustrations and clear explanations. Next, begin simple programming, with looping, branching, flags, etc. Then program with built-in applications,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

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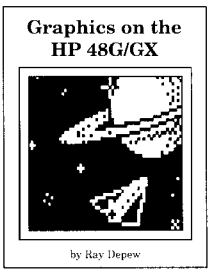
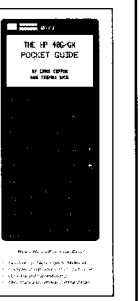


Graphics on the HP 48G/GX

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 gives you a great 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.

Graphics on the HP 48G/GX.....$19.95

The HP 48G/GX Pocket Guide



Don't take your calculator anywhere without this handy quick-reference booklet! ***It fits right in the case with your HP 48G/GX***, and it's packed with the kind of information and reminders you need most:

- Alpha keyboard • Object types/syntax • Constants/reserved names
- Names, variables, directories & paths • Menu diagrams/summaries
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You get all this—and more—in one handy quick-help booklet. It's a must-have companion to carry with your favorite calculator!

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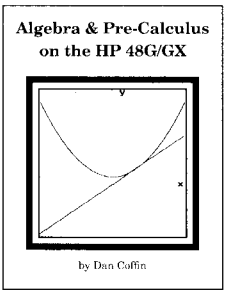

Algebra & Pre-Calculus on the HP 48G/GX

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

- Functions: Linear, quadratic, rational, polynomial
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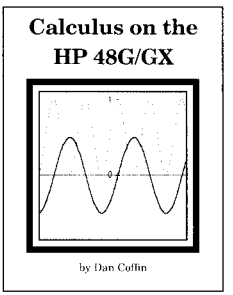
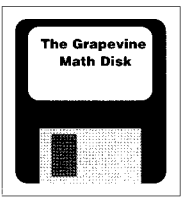
Calculus on the HP 48G/GX.....$19.95





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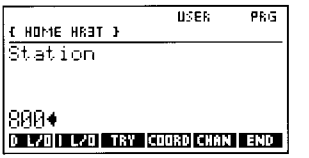
HIGHRAIL+™ v. 3.0 on ROM card

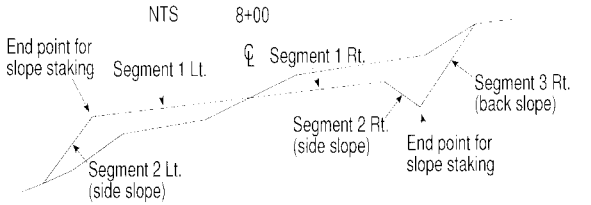
Surveying software for the HP 48SX/GX.

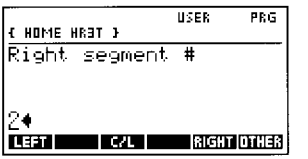
The ultimate in construction stakeout and data collection routines.

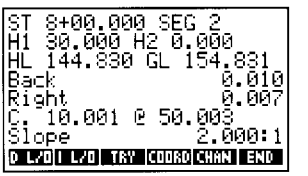
Station and offset stakeouts? *HIGHRAIL+* is for serious surveyors doing serious stakeouts. To our legendary continuous horizontal and vertical alignment routines we have added **continuous multi-segment** templates. Enter any station anywhere in the alignment along with the segment to stake and *HIGHRAIL+* will calculate the hinge point and crossfall through any widening and/or superelevation change and show you the layout data.



Remote slope staking? Press just two softkeys to get into slope stake mode. *HIGHRAIL+* will calculate the interpolated side/back slope for the current station. You can now choose to use the traditional **horizontal** or the new **on-the-slope** slope stake move calculation.







Some of the other upgrade features? Vertical alignment, template, raw data and cutsheet files now linked **independently**. The **setup data can now be changed** from within the sideshots, point layouts and alignment routines. Optionally use a **secondary control point** file. Get an **optional check shot** after a setup change and save it to the cutsheet file. **Description pick list**.

Other routines? • **Data Collection** with raw data, coordinates or coordinates plus a raw data backup • **Point Layouts** from the current **primary** or **secondary** job file • **Traverse** with multiple readings and auto-closure and auto-adjustment with optional data collection • **Two Point Resection** • **Inverse Traverse** with straight or circular curve segments • **Curve Fit** fits a circular curve between two intersecting tangents. Can optionally store points for *automatic* alignment creation • **Remote Elevation** • **Clearances** • **Vertical Curves** • **File Editing** • **File Manager** can be used to view, edit, rename and purge files.

Also includes **Kermit** for file transfer and PC-based utilities for **Coordinate Conversion** to generic ASCII and DXF formats and **Raw Data Conversion** to popular raw data formats.

Package contains ROM card, user manual/tutorial, 3.5" PC-based utilities diskette and keyboard overlay.

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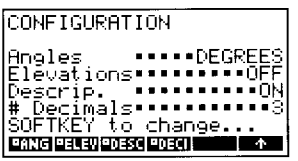
SURVcalc™ version 3.0 on ROM card

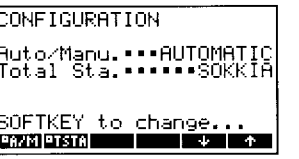
Surveying software for the HP 48SX/GX.

Land surveying, data collection and construction stakeout routines.



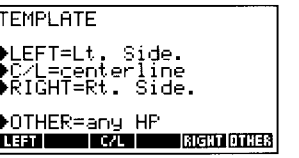
SURVcalc can be configured for the way you work.

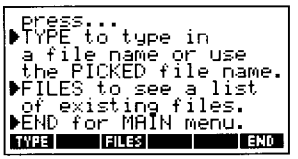
Set DEGREES/GRADS, elevations and descriptions ON/OFF; now also set the number of decimals.



Now with 2-segment TEMPLATES.

Our amazing *continuous* horizontal and vertical alignment stakeout system now has a *continuous* **2-segment TEMPLATE** option. It automatically interpolates the hinge point and crossfall for any station in the alignment.





Now with file choose lists.

You can now either type in a known file name or choose the file name from a list of existing files.

SURVcalc also contains the following routines:

• **Data Collection** with raw data, coordinates or coordinates plus a raw data backup • **Point Layouts** from the current job file • **Traverse** with multiple readings and auto-closure and auto-adjustment with optional data collection • **Intersections** • **Two Point Resection** • **Inverse Traverse** with straight or circular curve segments • **Curve Fit** fits a circular curve between two intersecting tangents. Can optionally store points for *automatic* alignment creation • **Remote Elevation** • **Clearances** • **Radius Points/Circular Curve Data** • **Vertical Curves** • **Areas** • **Volumes** • **Coordinate Transformation** • **Triangles** • **Predetermined Areas** • **File Editing** • **File Manager** can be used to view, edit, purge and transfer files with **Kermit**.

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Package contains ROM card, user manual/tutorial and 3.5" PC-based utilities diskette.

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DIGILOOP™ version 1.0 on ROM card

Surveying software for the HP 48SX/GX.

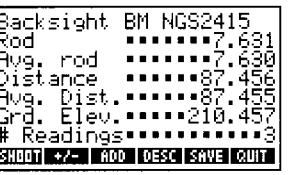
The Digital Level Data Collection system.

Works with Leica®, Topcon® and Zeiss® digital levels. DIGILOOP can also be used with manual data entry.

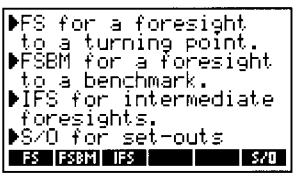
From Stockton, New Jersey to Redondo Beach, California to Brisbane, Australia surveyors all over our planet are discovering how DIGILOOP can simplify running their digital level lines or level nets.

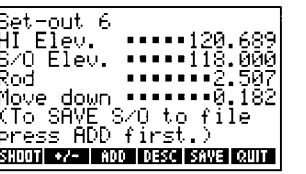
Each DIGILOOP file can contain a single level line or a number of lines for a level net. Files can be temporarily stopped and re-started any time after tying in to a benchmark.

Use the actual alphanumeric names and descriptions of benchmarks.



Get intermediate foresights and do set-outs. The set-out shots will be tagged so the DIGILOOP fieldbook file can be used as a cutsheet.





The DIGILOOP editor can be used to quickly edit or purge a shot.

Also includes PC-based file transfer and conversion utilities for creating, merging and printing DIGILOOP fieldbook files. The converter will also output a file in STAR*LEV summary format for least squares adjustment.

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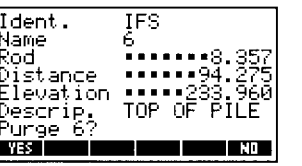

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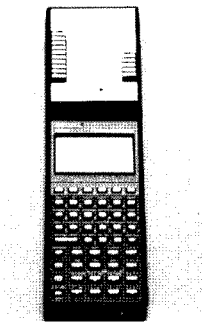

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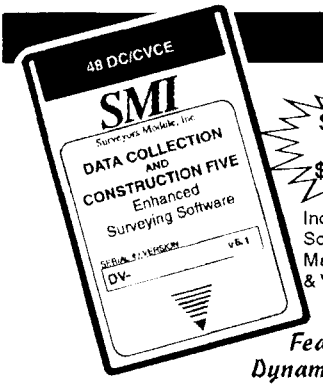

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Featuring: Dynamic Memory

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

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

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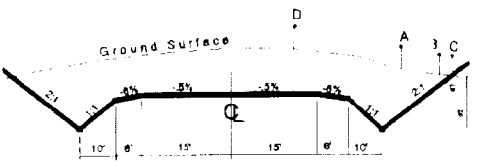

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Road Cross Section Design Template

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 interpolates between templates.

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In the road cross sectin template shown A,B,C, and Drepresent 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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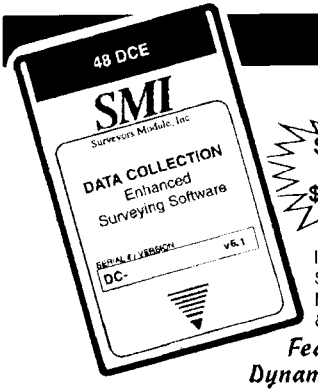

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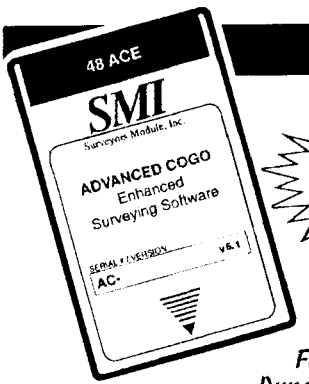

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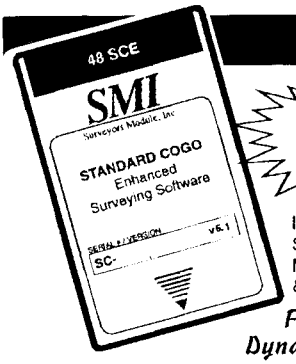

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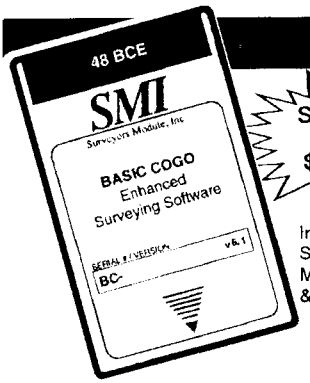

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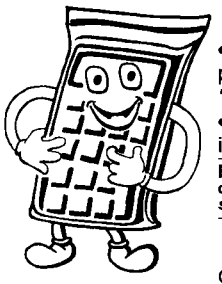

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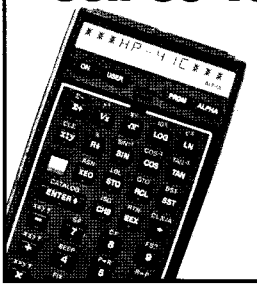

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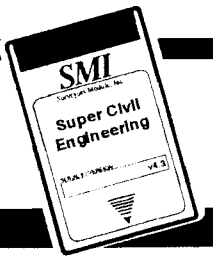

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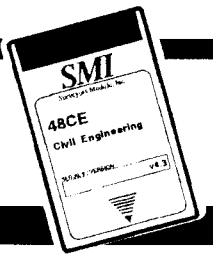

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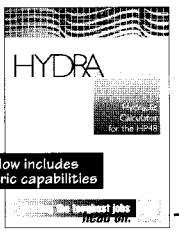

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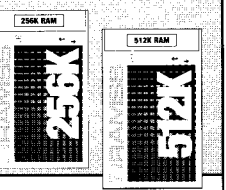

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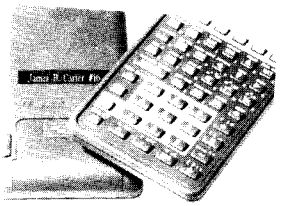

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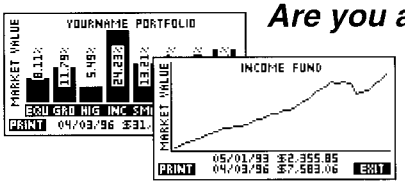

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