

The CACHE Corporation Provides Educational and Industrial Site Licenses for the Latest Version of the POLYMATH Numerical Computation Package

By Mordechai Shacham, Michael B. Cutlip, and Michael Elly

POLYMATH is a proven computational system, which has been specifically created for educational or professional use. The various POLYMATH programs allow the user to apply effective numerical analysis techniques during interactive problem solving on personal computers. Results are presented graphically for easy understanding and for incorporation into papers and reports. Students, engineers, mathematicians, scientists, or anyone with a need to solve problems will appreciate the efficiency and speed of problem solution. Version 5.1, programmed for 32-bit WindowsTM operating systems, provides the following problem solving capabilities:

- **Linear Equations** – up to 200 simultaneous equations
- **Nonlinear Equations** – up to 200 simultaneous nonlinear and explicit algebraic equations
- **Differential Equations** – up to 200 simultaneous ordinary differential and explicit algebraic equations
- **Data analysis and Regression** – up to 600 data points with capabilities for linear, multiple linear, and nonlinear regressions with extensive statistics plus polynomial and spline fitting with interpolation and graphing capabilities

Important new features for POLYMATH 5.1 relative to previous versions 4.2 and lower include:

TOTALLY NEW INTERFACE

STANDARD WINDOWS EDITING

ENHANCED CAPABILITIES AND NUMBERS OF EQUATIONS SOLVED

SIGNIFICANTLY IMPROVED GRAPHICS

EXTENSIVE USER ALGORITHM SELECTION AND CONTROL

EXECUTION WITH ALL 32-BIT WINDOWS OPERATING SYSTEMS

PRINTING WITH ATTACHED PRINTERS

COMPATIBILITY WITH PREVIOUS VERSIONS

THREE ON-BOARD UTILITIES: POWERFUL CALCULATOR, UNIT CONVERTER, AND EXTENSIVE ENGINEERING CONVERSION FACTORS

EASE OF USE WITHOUT ANY PROGRAMMING LANGUAGES OR CONTROL LANGUAGES TO REMEMBER

EXTENSIVE ON-LINE DOCUMENTATION

For more information on POLYMATH go to:

<http://www.che.utexas.edu/cache/pmathinfo.html>

Individual Copies of POLYMATH

Individual user copies of POLYMATH are not available through CACHE. Ordering information for individual users is available from the POLYMATH web site where direct download and CD-ROMs are available. Student versions are provided at reduced prices. More information including a demonstration download of the complete software are from the POLYMATH web site.

Site License Information

POLYMATH Trial Offer (Domestic Educational Institutions Only)

CACHE invites faculty to request this package from the CACHE Office for testing and evaluation. If your department decides to obtain POLYMATH for a three month testing period, please be aware of the following:

1. You may reproduce the program as many times as you like for students and other faculty.
2. Your department chairman will be informed of the testing.
3. If you decide to use POLYMATH in your department after three months, supporting departments will be billed \$150.00 and \$100.00 for each successive year thereafter. This fee covers any updates or new versions. CACHE nonmember institution rates are an initial \$175 and a \$125 annual fee for subsequent years.
4. If you decide not to use POLYMATH after 3 months, you must return (or certify you have erased) all copies made.

POLYMATH Trial Offer (Domestic Industrial Locations Only)

Industrial site licenses are \$350 with an annual fee of \$250 and a one month trial period. This includes distribution, computer laboratory use, and unlimited personal computer copies to employees.

ORDERING SITE LICENSES FROM CACHE

To order educational or industrial site licenses, please complete the Standard Order form. This link will open a new window. After printing the order form, simply close the window to return to this page.

POLYMATH TEXTBOOK IS AVAILABLE

A new book by the POLYMATH authors entitled Problem Solving in Chemical Engineering with Numerical Methods is available from Prentice Hall.

Authors: Michael B. Cutlip, University of Connecticut and Mordechai Shacham, Ben-Gurion University of the Negev, Israel

Copyright 1999, 464 pp. Paper Bound w/CD-ROM ISBN 0-13-862566-2 - \$65

Please send questions, comments, suggestions, and corrections to Chris Bailor at the CACHE Office. chris@che.utexas.edu