

*Familiarize yourself with the power of Maple!*

# Computing with Maple

**New!**

Francis Wright

*Queen Mary & Westfield College  
University of London, UK*

## Programming concepts demonstrated through Maple

Powerful, flexible, easy to use—small wonder that the use of Maple® continues to increase, particularly since the latest releases of Maple. The built-in nature of its numerical and graphical facilities now gives Maple a distinct advantage over traditional programming languages, yet to date, no book has used that advantage to introduce programming concepts. Moreover, few books based on Maple's latest versions even exist.

**Computing with Maple** presents general programming principles using Maple as a concrete example of a programming language. The author first addresses the basic Maple functions accessible for interactive use then moves to actual programming, discussing all of the programming facilities that Maple provides, including control structures, data types, graphics, spreadsheets, text processing, and object oriented programming. Reflecting Maple's primary function as a computational tool, the book's emphasis is on mathematical examples, and it includes a full chapter devoted to algebraic programming.

**Computing with Maple** includes numerous exercises and test questions, Maple worksheets, contact information, and supplementary material available on the Internet.

**Catalog no. C2360**  
**September 2001, 552 pp.**  
**ISBN: 1-58488-236-0, \$59.95 / £24.99**

## Features

- Introduces the general concepts of programming using Maple as its programming language
- Focuses on symbolic computation but also addresses numerical approximation and computer graphics
- Builds programming skills while providing experience with a leading mathematical software package
- Incorporates a full range of material, from the fundamentals to advanced concepts, including object oriented programming, spreadsheets, text processing, and formatted input/output

## Contents

INTRODUCTION  
REVIEW OF BASICS  
TWO-DIMENSIONAL PLOTTING  
THREE-DIMENSIONAL PLOTTING  
NUMERICAL AND SEMI-NUMERICAL COMPUTATION  
NUMERICAL LINEAR ALGEBRA  
LOGIC AND CONTROL STRUCTURES  
PROCEDURES AND RECURSION  
OPERATORS AND FUNCTIONS  
DATA TYPES  
CONVENTIONAL PROGRAMMING  
ALGEBRAIC PROGRAMMING  
SPREADSHEETS  
TEXT PROCESSING  
OBJECT ORIENTATION AND MODULES  
BIBLIOGRAPHY

*See reverse side for other titles of interest and ordering information*

## Other Titles of Interest



### MATLAB PRIMER FIFTH EDITION

**Kermit N. Sigmon**  
UNIVERSITY OF FLORIDA, GAINESVILLE, USA

This pocket book provides a high-level introduction and handy reference to MATLAB® 5, helping readers to learn efficiently and independently without having to delve through manuals. It includes all the information on the latest programming and applications development tools in MATLAB 5, updates all command reference tables, and underscores the new language, structures, and data types used.

**Catalog no. 1305**  
**1998, 144 pp., softcover**  
**ISBN: 0-8493-1305-8, \$15.95 / £10.99**



### GRAPHICS AND GUIs WITH MATLAB

**SECOND EDITION**  
**Patrick Marchand**  
CONSULTANT, APEX, NORTH CAROLINA, USA

**Graphics and GUIs with MATLAB** examines the MATLAB® graphics system, describing the enhancements and added features of MATLAB 5. This second edition of this bestseller provides example sets to simplify the process of mastering the powerful and easy-to-use graphics environment.

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### EXPERIMENTAL MATHEMATICS WITH MAPLE

**Franco Vivaldi**  
QUEEN MARY & WESTFIELD COLLEGE  
UNIVERSITY OF LONDON, UK

This book introduces the basics of discrete mathematics and gradually develops computational skills using Maple®. The author uses many computational examples, encouraging readers to isolate the general from the particular, synthesize computational results, formulate conjectures, and attempt rigorous proofs. Maple worksheets and solutions to selected exercises are available on the Internet.

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