

Maple Advanced Programming Guide

M. R. Morgan, R. G. Sedles, P. M. Heal,
G. Lalonde, S. M. McCreath, T. McCann,
P. DeMaere

Maple 2014 • Division of Mathematics, Waterloo: 1996-2014

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Advanced Programming Guide Maple 12

Rosina Ehmann



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Maple 12: Advanced Programming Guide M. B. Monagan, 2008 *Maple Advanced Programming Guide* M. B. Monagan, 2008 **Maple 9 Advanced Programming Guide**, 2003 **Mathematics for Physical Science and Engineering** Frank E. Harris, 2014-05-24 Mathematics for Physical Science and Engineering is a complete text in mathematics for physical science that includes the use of symbolic computation to illustrate the mathematical concepts and enable the solution of a broader range of practical problems This book enables professionals to connect their knowledge of mathematics to either or both of the symbolic languages Maple and Mathematica The book begins by introducing the reader to symbolic computation and how it can be applied to solve a broad range of practical problems Chapters cover topics that include infinite series complex numbers and functions vectors and matrices vector analysis tensor analysis ordinary differential equations general vector spaces Fourier series partial differential equations complex variable theory and probability and statistics Each important concept is clarified to students through the use of a simple example and often an illustration This book is an ideal reference for upper level undergraduates in physical chemistry physics engineering and advanced applied mathematics courses It will also appeal to graduate physicists engineers and related specialties seeking to address practical problems in physical science Clarifies each important concept to students through the use of a simple example and often an illustration Provides quick reference for students through multiple appendices including an overview of terms in most commonly used applications Mathematica Maple Shows how symbolic computing enables solving a broad range of practical problems *Microfluidics* Bastian E. Rapp, 2022-10-07 *Microfluidics Modeling Mechanics and Mathematics* Second Edition provides a practical lab based approach to nano and microfluidics including a wealth of practical techniques protocols and experiments ready to be put into practice in both research and industrial settings This practical approach is ideally suited to researchers and R D staff in industry Additionally the interdisciplinary approach to the science of nano and microfluidics enables readers from a range of different academic disciplines to broaden their understanding Alongside traditional fluid transport topics the book contains a wealth of coverage of materials and manufacturing techniques chemical modification surface functionalization biochemical analysis and the biosensors involved This fully updated new edition also includes new sections on viscous flows and centrifugal microfluidics expanding the types of platforms covered to include centrifugal capillary and electro kinetic platforms Provides a practical guide to the successful design and implementation of nano and microfluidic processes e g biosensing and equipment e g biosensors such as diabetes blood glucose sensors Provides techniques experiments and protocols that are ready to be put to use in the lab or in an academic or industry setting Presents a collection of 3D CAD and image files on a companion website *Biomedical Engineering, Trends in Electronics* Anthony Laskovski, 2011-01-08 Rapid technological developments in the last century have brought the field of biomedical engineering into a totally new realm Breakthroughs in material science imaging electronics

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