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Advanced Programming Guide

Advanced Programming Guide Maple 1

Bastian E. Rapp



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Maple 9 M. B. Monagan, 2003 **Maple V Programming Guide** Waterloo Maple Incorporated, 1998 Maple V Mathematics Programming Guide is the fully updated language and programming reference for Maple V Release 5 It presents a detailed description of Maple V Release 5 the latest release of the powerful interactive computer algebra system used worldwide as a tool for problem solving in mathematics the sciences engineering and education This manual describes the use of both numeric and symbolic expressions the data types available and the programming language statements in Maple It shows how the system can be extended or customized through user defined routines and gives complete descriptions of the system s user interface and 2D and 3D graphics capabilities *Computer Algebra Recipes* Richard H. Enns, George C. McGuire, 2007-02-26 Computer algebra systems are revolutionizing the teaching the learning and the exploration of science Not only can students and researchers work through mathematical models more efficiently and with fewer errors than with pencil and paper they can also easily explore both analytically and numerically more complex and computationally intensive models Aimed at science and engineering undergraduates at the sophomore junior level this introductory guide to the mathematical models of science is filled with examples from a wide variety of disciplines including biology economics medicine engineering game theory mathematics physics and chemistry The topics are organized into the Appetizers dealing with graphical aspects the Entrees concentrating on symbolic computation and the Desserts illustrating numerical simulation The heart of the text is a large number of computer algebra recipes based on the Maple 10 software

system These have been designed not only to provide tools for problem solving but also to stimulate the reader's imagination Associated with each recipe is a scientific model or method and an interesting or amusing story accompanied with a thought provoking quote that leads the reader through the various steps of the recipe Each section of recipes is followed by a set of problems that readers can use to check their understanding or to develop the topic further This text is the first of two volumes the advanced guide aimed at junior senior graduate level students dealing with more advanced differential equation models

Geometric Computation Falai Chen, Dongming Wang, 2004-03-29 This book contains tutorial surveys and original research contributions in geometric computing modeling and reasoning Highlighting the role of algebraic computation it covers surface blending implicitization and parametrization automated deduction with Clifford algebra and in real geometry and exact geometric computation Basic techniques advanced methods and new findings are presented coherently with many examples and illustrations Using this book the reader will easily cross the frontiers of symbolic computation computer aided geometric design and automated reasoning The book is also a valuable reference for people working in other relevant areas such as scientific computing computer graphics and artificial intelligence

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 and more recently the information age have improved our understanding of the human body As a result the field of biomedical engineering is thriving with new innovations that aim to improve the quality and cost of medical care This book is the first in a series of three that will present recent trends in biomedical engineering with a particular focus on electronic and communication applications More specifically wireless monitoring sensors medical imaging and the management of medical information

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