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MAPLE 12: ADVANCED PROGRAMMING GUIDE

MAPLE 12: INTRODUCTORY PROGRAMMING GUIDE

MAPLE V PROGRAMMING GUIDE

FOR RELEASE 5

Springer Science & Business Media 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.

MAPLE 10: INTRODUCTORY PROGRAMMING GUIDE

MAPLE V

LEARNING GUIDE

MAPLE V PROGRAMMING GUIDE

Springer-Verlag New York Incorporated

MAPLE 9

INTRODUCTORY PROGRAMMING GUIDE

MAPLE 13

THE ESSENTIAL TOOL FOR MATHEMATICS AND MODELING

MAPLE 9 ADVANCED PROGRAMMING GUIDE

MAPLE ADVANCED PROGRAMMING GUIDE

MAPLE V PROGRAMMING GUIDE

UNDERSTANDING MAPLE

MAPLE 13: USER MANUAL

MAPLE 9

ADVANCED PROGRAMMING GUIDE

MAPLE V PROGRAMMING GUIDE

PROGRAMMING GUIDE (B) MAPLE V.

MAPLE 7 PROGRAMMING GUIDE

THE MAPLE BOOK

CRC Press Maple is a very powerful computer algebra system used by students, educators, mathematicians, statisticians, scientists, and engineers for doing numerical and symbolic computations. Greatly expanded and updated from the author's MAPLE V Primer, The MAPLE Book offers extensive coverage of the latest version of this outstanding software package, MAPLE 7.0 The MAPLE Book serves both as an introduction to Maple and as a reference. Organized according to level and subject area of mathematics, it first covers the basics of high school algebra and graphing, continues with calculus and differential equations then moves on to more advanced topics, such as linear algebra, vector calculus, complex analysis, special functions, group theory, number theory and combinatorics. The MAPLE Book includes a tutorial for learning the Maple programming language. Once readers have

learned how to program, they will appreciate the real power of Maple. The convenient format and straightforward style of The MAPLE Book let users proceed at their own pace, practice with the examples, experiment with graphics, and learn new functions as they need them. All of the Maple commands used in the book are available on the Internet, as are links to various other files referred to in the book. Whatever your level of expertise, you'll want to keep The MAPLE Book next to your computer.

MAPLE INTRODUCTORY PROGRAMMING GUIDE

MAPLE ELEVEN INTRODUCTORY PROGRAMMING GUIDE

MAPLE ELEVEN ADVANCED PROGRAMMING GUIDE

MAPLE V PROGRAMMING GUIDE

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MAPLE 6 PROGRAMMING GUIDE

MAPLE PROGRAMMING GUIDE

SPANISH VERSION

MAPLE 8 ADVANCED PROGRAMMING GUIDE

MAPLE V

LEARNING GUIDE

Springer Maple V Mathematics Learning Guide is the fully revised introductory documentation for Maple V Release 5. It shows how to use Maple V as a calculator with instant access to hundreds of high-level math routines and as a programming language for more demanding or specialized tasks. Topics include the basic data types and statements in the Maple V language. The book serves as a tutorial introduction and explains the difference between numeric computation and symbolic computation, illustrating how both are used in Maple V Release 5. Extensive "how-to" examples are presented throughout the text to show how common types of calculations can be easily expressed in Maple. Graphics examples are used to illustrate the way in which 2D and 3D graphics can aid in understanding the behaviour of problems.

LINEAR AND NONLINEAR PROGRAMMING WITH MAPLE

AN INTERACTIVE, APPLICATIONS-BASED APPROACH

CRC Press Helps Students Understand Mathematical Programming Principles and Solve Real-World Applications Supplies enough mathematical rigor yet accessible enough for undergraduates Integrating a hands-on learning approach, a strong linear algebra focus, MapleTM software, and real-world applications, Linear and Nonlinear Programming with MapleTM: An Interactive, Applications-Based Approach introduces undergraduate students to the mathematical concepts and principles underlying linear and nonlinear programming. This text fills the gap between management science books lacking mathematical detail and rigor and graduate-level books on mathematical programming. Essential linear algebra tools Throughout the text, topics from a first linear algebra course, such as the invertible matrix theorem, linear independence, transpose properties, and eigenvalues, play a prominent role in the discussion. The book emphasizes partitioned matrices and uses them to describe the simplex algorithm in terms of matrix multiplication. This perspective leads to streamlined approaches for constructing the revised simplex method, developing duality theory, and approaching the process of sensitivity analysis. The book also discusses some intermediate linear algebra topics, including the spectral theorem and matrix norms. Maple enhances conceptual understanding and helps tackle problems Assuming no prior experience with Maple, the author provides a sufficient amount of instruction for students unfamiliar with the software. He also includes a summary of Maple commands as well as Maple worksheets in the text and online. By using Maple's symbolic computing components, numeric capabilities, graphical versatility, and intuitive programming structures, students will acquire a deep conceptual understanding of major mathematical programming principles, along with the ability to solve moderately sized real-world applications. Hands-on activities that engage students Throughout the book, student understanding is evaluated through "waypoints" that involve basic computations or short questions. Some problems require paper-and-pencil calculations; others involve more lengthy calculations better suited for performing with Maple. Many sections contain exercises that are conceptual in nature and/or involve writing proofs. In addition, six substantial projects in one of the appendices enable students to solve challenging real-world problems.

GNU OCTAVE

BEGINNER'S GUIDE : BECOME A PROFICIENT OCTAVE USER BY LEARNING THIS HIGH-LEVEL SCIENTIFIC NUMERICAL TOOL FROM THE GROUND UP

Packt Publishing Ltd Today, scientific computing and data analysis play an integral part in most scientific disciplines ranging from mathematics and biology to imaging processing and finance. With GNU Octave you have a highly flexible tool that can solve a vast number of such different problems as complex statistical analysis and dynamical system studies. The GNU Octave Beginner's Guide gives you an introduction that enables you to solve and analyze complicated numerical problems. The book is based on numerous concrete examples and at the end of each chapter you will find exercises to test your knowledge. It's easy to learn GNU Octave, with the GNU Octave Beginner's Guide to hand. Using real-world examples the GNU Octave Beginner's Guide will take you through the most important aspects of GNU Octave. This practical guide takes you from the basics where you are introduced to the interpreter to a more advanced level where you will learn how to build your own specialized and highly optimized GNU Octave toolbox package. The book starts by introducing you to work variables like vectors and matrices, demonstrating how to perform simple arithmetic operations on these objects before explaining how to use some of the simple functionality that comes with GNU Octave, including plotting. It then goes on to show you how to write new functionality into GNU Octave and how to make a toolbox package to solve your specific problem. Finally, it demonstrates how to optimize your code and link GNU Octave with C and C++ code enabling you to solve even the most computationally demanding tasks. After reading GNU Octave Beginner's Guide you will be able to use and tailor GNU Octave to solve most numerical problems and perform complicated data analysis with ease.

MAPLE V

LEARNING GUIDE

Springer Science & Business Media Maple V Mathematics Learning Guide is the fully revised introductory documentation for Maple V Release 5. It shows how to use Maple V as a calculator with instant access to hundreds of high-level math routines and as a programming language for more demanding or specialized tasks. Topics include the basic data types and statements in the Maple V language. The book serves as a tutorial introduction and explains the difference between numeric computation and symbolic computation, illustrating how both are used in Maple V Release 5. Extensive "how-to" examples are presented throughout the text to show how common types of calculations can be easily expressed in Maple. Graphics examples are used to illustrate the way in which 2D and 3D graphics can aid in understanding the behaviour of problems.

LITERATE PROGRAMMING

Stanford Univ Center for the Study Literate programming is a programming methodology that combines a programming language with a documentation language, making programs more easily maintained than programs written only in a high-level language. A literate programmer is an essayist who writes programs for humans to understand. When programs are written in the recommended style they can be transformed into documents by a document compiler and into efficient code by an algebraic compiler. This anthology of essays includes Knuth's early papers on related topics such as structured programming as well as the Computer Journal article that launched literate programming. Many examples are given, including excerpts from the programs for TeX and METAFONT. The final essay is an example of CWEB, a system for literate programming in C and related languages. Index included.

THE SOUTH BEACH DIET COOKBOOK

MORE THAN 200 DELICIOUS RECIPES THAT FIT THE NATION'S TOP DIET

Rodale A companion to "The South Beach Diet" presents more than two hundred recipes that demonstrate how to eat healthfully without compromising taste, outlining the diet's basic philosophies and sharing personal success stories.

MATHEMATICAL METHODS FOR PHYSICS AND ENGINEERING

A COMPREHENSIVE GUIDE

Cambridge University Press The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, www.cambridge.org/9780521679718.

MAPLE

A PRIMER

Morgan & Claypool Publishers Maple is a comprehensive symbolic mathematics application which is well suited for demonstrating physical science topics and solving associated problems. Because Maple is such a rich application, it has a somewhat steep learning curve. Most existing texts concentrate on mathematics; the Maple help facility is too detailed and lacks physical science examples, many Maple-related websites are out of date giving readers information on older Maple versions. This book records the author's journey of discovery; he was familiar with SMath but not with Maple and set out to learn the more advanced application. It leads readers through the basic Maple features with physical science worked examples, giving them a firm base on which to build if more complex features interest them.

COMPUTER ALGEBRA SYSTEMS

A NEW SOFTWARE TOOLBOX FOR MAPLE

Fultus Corporation Book Description The book represents a library of well-designed software, which well supplements the already available Maple software with the orientation towards the widest circle of the Maple users, greatly enhancing its usability and effectiveness. The current library version contains tools (more than 570 procedures and program modules) that are oriented onto wide enough spheres of computing and information processing. The library is structurally similar to the main Maple library and is supplied with the advanced Help system about the tools located in it. In addition, the library is logically connected with the main Maple library, providing access to the tools contained in it similarly to the package tools. The library will be of special interest above all to those who use Maple of releases 6 - 9.5 not only as a highly intellectual calculator but also as environment for programming of different problems in own professional activities. The represented source codes of the library tools, using both the effective and the non-standard technique, can serve as an useful enough practical programming guide on the Maple language. Author Biography Professor Aladjev V. was born on June 14, 1942 in the town Grodno (Byelorussia). Now, he is the First vice-president of the International Academy of Noosphere and the president of Tallinn Research Group, whose scientific results have received international recognition, first, in the field of mathematical theory of Cellular Automata (CA). He is member of a series of Russian and International Academies. Aladjev V. is the author of more than 300 scientific publications, including 60 books, published in many countries. He participates as a member of the organizing committee and/or a guest lecturer in many international scientific forums in mathematics and cybernetics. Category: NonFiction/Science/Mathematics/Mathematical & Statistical Software/Algebra

THE MASTER CLEANSER

Lulu Press, Inc The Master Cleanser: Original Edition The Master Cleanser diet otherwise known as the lemonade diet has been around close to 50 years. It's the easiest, most delicious, effective cleansing and weight loss diet available. You can feel good and get rid of what ails you. This diet has been used for every health problem with great success.

THE MATHEMATICA GUIDEBOOK FOR PROGRAMMING

Springer This comprehensive, detailed reference provides readers with both a working knowledge of Mathematica in general and a detailed knowledge of the key aspects needed to create the fastest, shortest, and most elegant implementations possible. It gives users a deeper understanding of Mathematica by instructive implementations, explanations, and examples from a range of disciplines at varying levels of complexity. The three volumes -- Programming, Graphics, and Mathematics, total 3,000 pages and contain more than 15,000 Mathematica inputs, over 1,500 graphics, 4,000+ references, and more than 500 exercises. This first volume begins with the structure of Mathematica expressions, the syntax of Mathematica, its programming, graphic, numeric and symbolic capabilities. It then covers the hierarchical construction of objects out of symbolic expressions, the definition of functions, the recognition of patterns and their efficient application, program flows and program structuring, and the manipulation of lists. An indispensable resource for students, researchers and professionals in mathematics, the sciences, and engineering.

AN ILLUSTRATED GUIDE TO MAPLES

Timber Press (OR) Landscape architects, garden designers, plant enthusiasts, and home gardeners will now find it easy to select the appropriate tree or shrub for any conditions.

THE WHOLE30

THE 30-DAY GUIDE TO TOTAL HEALTH AND FOOD FREEDOM

Houghton Mifflin Harcourt The best-selling authors of It Starts With Food outline a scientifically based, step-by-step guide to weight loss that explains how to change one's relationship with food for better habits, improved digestion and a stronger immune system. 150,000 first printing.

MAPLE 6

LEARNING GUIDE

APPLIED ABSTRACT ALGEBRA WITH MAPLETM AND MATLAB®

A MAPLE AND MATLAB APPROACH, THIRD EDITION

CRC Press Applied Abstract Algebra with MapleTM and MATLAB® provides an in-depth introduction to real-world abstract algebraic problems. This popular textbook covers a variety of topics including block designs, coding theory, cryptography, and counting techniques, including Pólya's and Burnside's theorems. The book also includes a concise review of all prerequisite advanced mathematics. The use of sophisticated mathematical software packages such as MapleTM and MATLAB® allows students to work through realistic examples without having to struggle with extensive computations. Notable additions to the third edition include expanded contemporary applications, coverage of the two-message problem, and a full chapter on symmetry in Western music. Several other parts of the book were also updated, including some MATLAB sections due to their adoption of the MuPAD computer algebra system since the last edition. This edition also contains more than 100 new exercises. This new edition includes the two most widely used mathematical software packages. It builds upon the successful previous editions, favored by instructors and students alike.