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mathematical problems. This book shows you how to tap the full power of Maple's latest version in solving real-world quantitative problems in circuit theory, control theory, curve-fitting, mechanics, and digital signal processing.

Philosophy of the Text This text has been designed to be an introductory survey of the basic concepts and applied mathematical methods of nonlinear science. Students in engineering, physics, chemistry, mathematics, computing science, and biology should be able to successfully use this text. In an effort to provide the students with a cutting edge approach to one of the most dynamic, often subtle, complex, and still rapidly evolving, areas of modern research—nonlinear physics—we have made extensive use of the symbolic, numeric, and plotting capabilities of Maple V Release 4 applied to examples from these disciplines. No prior knowledge of Maple or computer programming is assumed, the reader being gently introduced to Maple as an auxiliary tool as the concepts of nonlinear science are developed. The diskette which accompanies the text gives a wide variety of illustrative nonlinear examples solved with Maple. An accompanying laboratory manual of experimental activities keyed to the text allows the student the option of "hands on" experience in exploring nonlinear phenomena in the REAL world. Although the

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experiments are easy to perform, they give rise to experimental and theoretical complexities which are not to be underestimated. The Level of the Text The essential prerequisites for the first eight chapters of this text would normally be one semester of ordinary differential equations and an intermediate course in classical mechanics.

Science demands that all theory must be checked by experiment. Richard Feynman, Nobel Laureate in physics (1965), reminds us in a wonderful quote that "The test of all knowledge is experiment. Experiment is the sole judge of scientific truth." 1 It is because nonlinear physics can be so profoundly counter intuitive that these laboratory investigations are so important. This manual is designed to be used with the text Nonlinear Physics with Maple for Scientists and Engineers. Understanding is enhanced when experiments are used to check so please attempt as many of the activities as you can. As you perform theory, these activities, we hope that you will be amazed and startled by strange behavior, intrigued and terrorized by new ideas, and be able to amaze your friends as you relate your strange sightings! Remember that imagination is just as important as knowledge, so exercise yours whenever possible. But please be careful, as nonlinear activities can be addicting, can provide fond

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memories, and can awaken an interest that lasts a lifetime. Although it has been said that a rose by any other name is still a rose, (with apologies to Shakespeare) the authors of this laboratory manual have, in an endeavor to encourage the use of these nonlinear investigations, called them experimental activities rather than experiments. A number of design innovations have been introduced: A.

Written by one of the main developers of the Global Optimization Maple™ Toolbox, this book uses the Maple 13 computing system as an advanced multipurpose modeling and optimization environment. It reviews the necessary components of Maple that serve as the basic building blocks of optimization models and discusses how to develop various models with Maple. A large number of numerical examples and case studies highlight the use of Maple in various application situations. Specific topics addressed include linear optimization, quadratic optimization, and nonlinear local and global optimization.

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

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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

Maple is a very powerful computer algebra system used by students, educators, mathematicians, statisticians, scientists, and engineers

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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.

Thirty years ago mathematical, as opposed to applied numerical, computation was difficult to perform and so relatively little used.

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Three threads changed that: the emergence of the personal computer; the discovery of fiber-optics and the consequent development of the modern internet; and the building of the Three "M's" Maple, Mathematica and Matlab. We intend to persuade that Mathematica and other similar tools are worth knowing, assuming only that one wishes to be a mathematician, a mathematics educator, a computer scientist, an engineer or scientist, or anyone else who wishes/needs to use mathematics better. We also hope to explain how to become an "experimental mathematician" while learning to be better at proving things. To accomplish this our material is divided into three main chapters followed by a postscript. These cover elementary number theory, calculus of one and several variables, introductory linear algebra, and visualization and interactive geometric computation.

Based on a teach-yourself approach, the fundamentals of MATLAB are illustrated throughout with many examples from a number of different scientific and engineering areas, such as simulation, population modelling, and numerical methods, as well as from business and

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everyday life. Some of the examples draw on first-year university level maths, but these are self-contained so that their omission will not detract from learning the principles of using MATLAB. This completely revised new edition is based on the latest version of MATLAB. New chapters cover handle graphics, graphical user interfaces (GUIs), structures and cell arrays, and importing/exporting data. The chapter on numerical methods now includes a general GUI-driver ODE solver. * Maintains the easy informal style of the first edition * Teaches the basic principles of scientific programming with MATLAB as the vehicle * Covers the latest version of MATLAB

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