# mathematical explorations with MATALAB

Ke Chen Peter Giblin Alan Irving



# **Mathematical Explorations With Matlab**

James V Lambers, Amber C Sumner Mooney

# **Mathematical Explorations With Matlab:**

Mathematical Explorations with MATLAB Ke Chen, Peter J. Giblin, A. Irving, 1999-04-15 This book is about the kind of mathematics usually encountered in first year university courses A key feature of the book is that this mathematics is explored in depth using the popular and powerful package Matlab The emphasis is on understanding and investigating the mathematics and putting it into practice in a wide variety of modelling situations. In the process the reader will gain some fluency with Matlab no starting knowledge of the package being assumed **Differential Equations with MATLAB** Mark McKibben, Micah D. Webster, 2014-09-08 A unique textbook for an undergraduate course on mathematical modeling Differential Equations with MATLAB Exploration Applications and Theory provides students with an understanding of the practical and theoretical aspects of mathematical models involving ordinary and partial differential equations ODEs and PDEs The text presents a unifying picture inherent to the study and analysis of more than 20 distinct models spanning disciplines such as physics engineering and finance The first part of the book presents systems of linear ODEs The text develops mathematical models from ten disparate fields including pharmacokinetics chemistry classical mechanics neural networks physiology and electrical circuits Focusing on linear PDEs the second part covers PDEs that arise in the mathematical modeling of phenomena in ten other areas including heat conduction wave propagation fluid flow through fissured rocks pattern formation and financial mathematics. The authors engage students by posing questions of all types throughout including verifying details proving conjectures of actual results analyzing broad strokes that occur within the development of the theory and applying the theory to specific models. The authors accessible style encourages students to actively work through the material and answer these questions In addition the extensive use of MATLAB GUIs allows students to discover patterns and make conjectures **Explorations of Mathematical Models in Biology with MATLAB** Mazen Shahin, 2013-12-24 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data algorithms and models it has become necessary to use a computing language such as the user friendly MATLAB to focus more on building and analyzing models as opposed to configuring tedious calculations Explorations of Mathematical Models in Biology with MATLAB provides an introduction to model creation using MATLAB followed by the translation analysis interpretation and observation of the models With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications the book illustrates numerous applications of mathematical techniques within biology ecology and environmental sciences Featuring a quantitative computational and mathematical approach the book includes Examples of real world applications such as population dynamics genetics drug administration interacting species and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts such as Markov chains matrix algebra eigenvalues eigenvectors first order linear difference equations and nonlinear first order difference equations Coverage of difference

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Modeling of Curves and Surfaces with MATLAB® Vladimir Rovenski,2010-07-03 This text on geometry is devoted to various central geometrical topics including graphs of functions transformations non Euclidean geometries curves and surfaces as well as their applications in a variety of disciplines This book presents elementary methods for analytical modeling and demonstrates the potential for symbolic computational tools to support the development of analytical solutions The author systematically examines several powerful tools of MATLAB including 2D and 3D animation of geometric images with shadows and colors and transformations using matrices With over 150 stimulating exercises and problems this text integrates traditional differential and non Euclidean geometries with more current computer systems in a practical and user friendly format This text is an excellent classroom resource or self study reference for undergraduate students in a variety of disciplines MATLAB Guide to Finite Elements Peter Issa Kattan, 2003 This book is concerned with the numerical implementation of Finite Element Analysis using the computer program MATLAB which is very popular today in engineering and engineering education The book contains a short tutorial on MATLAB as well as a systematic strategy for the treatment of finite element method The book is directed towards both students and researchers in engineering Various examples and exercises are provided out of Mechanical Engineering Civil Engineering Aerospace Engineering or Materials Science BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved **Explorations In Numerical** Analysis James V Lambers, Amber C Sumner Mooney, 2018-09-17 This textbook introduces advanced undergraduate and early career graduate students to the field of numerical analysis This field pertains to the design analysis and implementation of algorithms for the approximate solution of mathematical problems that arise in applications spanning science and engineering and are not practical to solve using analytical techniques such as those taught in courses in calculus linear algebra or differential equations Topics covered include error analysis computer arithmetic solution of systems of linear equations least squares problems eigenvalue problems polynomial interpolation and approximation numerical differentiation and integration nonlinear equations optimization ordinary differential equations and partial differential equations For each problem considered the presentation includes the derivation of solution techniques analysis of their efficiency accuracy and robustness and details of their implementation illustrated through the MATLAB programming language This text is suitable for a year long sequence in numerical analysis and can also be used for a one semester course in numerical linear algebra

**Explorations in Computational Physics** Devang Patil,2025-02-20 Explorations in Computational Physics delves into

the intricate world of computational physics offering a comprehensive guide from fundamental theories to cutting edge applications. This book serves as an indispensable companion for both novice learners and seasoned researchers. We cover a diverse array of topics meticulously unfolding layers of computational techniques and their applications in various branches of physics. From classical mechanics simulations elucidating celestial mechanics to quantum mechanics computations unraveling atomic and subatomic realms the book navigates through the vast landscape of computational methodologies with clarity and precision Furthermore we delve into electromagnetic field simulations statistical mechanics and thermodynamics equipping readers with tools to model complex physical phenomena with accuracy and efficiency. High performance computing techniques data analysis and visualization methodologies are elucidated empowering readers to harness modern computational resources in their research. With lucid explanations illustrative examples and insightful discussions on emerging technologies like quantum computing and artificial intelligence Explorations in Computational Physics fosters a deeper understanding of computational methodologies and their transformative impact on physics research

Computational Science and Technology Rayner Alfred, Hiroyuki Iida, Ag. Asri Ag. Ibrahim, Yuto Lim, 2018-02-23 This book gathers the proceedings of the Fourth International Conference on Computational Science and Technology 2017 ICCST2017 held in Kuala Lumpur Malaysia on 29 30 November 2017 These proceedings offer practitioners and researchers the opportunity to present exciting advances in computational techniques and solutions in this area They also identify emerging issues help to shape future research directions and will enable industrial users to apply cutting edge large scale and high performance computational methods Proceedings of the 2024 3rd International Conference on Educational Science and Social Culture (ESSC 2024) Yongjun Feng, Wei Cui, Ye Dong, Guiyun Guan, 2025-05-04 This is an open access book 2024 3rd International Conference on Educational Science and Social Culture ESSC 2024 is scheduled to be held in Chengdu China during December 27 29 2024 The 3rd International Conference on Educational Science and Social Culture ESSC 2024 aims to unite scholars educators and practitioners to foster a deeper understanding of educational sciences and social culture The conference will address emerging trends innovative practices and critical issues affecting education and society in today s complex global environment ESSC 2024 focuses on promoting interdisciplinary research and collaborative efforts to explore and solve contemporary challenges in education and social culture The conference serves as a platform for disseminating cutting edge research sharing practical solutions and fostering dialogues that can translate into actionable policies and strategies ESSC 2024 will feature extended workshops keynote speeches from globally renowned experts and enhanced networking opportunities Unlike previous editions this year s conference will incorporate more interactive sessions and digital platforms providing a more engaging and inclusive experience for both in person and remote participants

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become necessary to use a computing language such as the user friendly MapleTM to focus more on building and analyzing models as opposed to configuring tedious calculations Explorations of Mathematical Models in Biology with Maple provides an introduction to model creation using Maple followed by the translation analysis interpretation and observation of the models With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications the book illustrates numerous applications of mathematical techniques within biology ecology and environmental sciences Featuring a quantitative computational and mathematical approach the book includes Examples of real world applications such as population dynamics genetics drug administration interacting species and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts such as Markov chains matrix algebra eigenvalues eigenvectors first order linear difference equations and nonlinear first order difference equations Coverage of difference equations to model a wide range of real life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional Maple codes Explorations of Mathematical Models in Biology with Maple is an ideal textbook for undergraduate courses in mathematical models in biology theoretical ecology bioeconomics forensic science applied mathematics and environmental science The book is also an excellent reference for biologists ecologists mathematicians biomathematicians MATLAB Programming Dingyü Xue, 2020-03-23 This book presents and environmental and resource economists fundamentals in MATLAB programming including data and statement structures control structures function writing and bugging in MATLAB programming followed by the presentations of algebraic computation transcendental function evaluations and data processing Advanced topics such as MATLAB interfacing object oriented programming and graphical user interface design are also addressed Oil and Gas Exploration Said Gaci, Olga Hachay, 2017-03-13 Oil and Gas Exploration Methods and Application presents a summary of new results related to oil and gas prospecting that are useful for theoreticians and practical professionals The study of oil and gas complexes and intrusions occurring in sedimentary basins is crucial for identifying the location of oil and gas fields and for making accurate predictions on oil findings Volume highlights include Advanced geophysical techniques for achieving hydrocarbon exploration efficiency from beneath the Earth Discussion of theoretical and practical approaches in solving problems related to exploring and mining new oil and gas deposits New geological concepts for predicting potential hydrocarbon targets Novel methods of control of the outworking of these deposits using different geophysical methods significant for optimization of mining hydrocarbon and carbonate deposits Estimation of the degree of outworking of oil and gas deposits to facilitate the use of space time monitoring of different kinds of fields Analysis of exploration data by an efficient processing system based on strong methods proven mathematically Oil and Gas Exploration is a valuable resource for exploration geophysicists petroleum engineers geoengineers petrologists mining engineers and economic geologists who will gain insights into exploring new methods

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there is a desire for these platforms to be energy efficient and reliable and they need to perform secure computations for the interest of the whole community This book provides perspectives on the aforementioned aspects from leading researchers in Field Programmable Logic and Application Jürgen terms of state of the art contributions and upcoming trends Becker, Marco Platzner, Serge Vernalde, 2004-08-19 This book constitutes the refereed proceedings of the 14th International Conference on Field Programmable Logic FPL 2003 held in Leuven Belgium in August September 2004 The 78 revised full papers 45 revised short papers and 29 poster abstracts presented together with 3 keynote contributions and 3 tutorial summaries were carefully reviewed and selected from 285 papers submitted. The papers are organized in topical sections on organic and biologic computing security and cryptography platform based design algorithms and architectures acceleration application architecture physical design arithmetic multitasking circuit technology network processing testing applications signal processing computational models and compiler dynamic reconfiguration networks and optimisation algorithms system on chip high speed design image processing network on chip power aware design IP based design co processing architectures system level design physical interconnect computational models cryptography and compression network applications and architecture and debugging and test The Best Books for Academic Libraries: Science, technology, and agriculture, 2002

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