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Mathematical Models Richard Haberman 1998-12-01 The author uses mathematical techniques to give an in-depth look at models for mechanical vibrations, population dynamics, and traffic flow.

Analysis and design of control systems using MATLAB Rao V. Dukkipati 2006

Communication Systems Principles Using MATLAB John W. Leis 2018-07-31 Discover the basic telecommunications systems principles in an accessible learn-by-doing format Communication Systems Principles Using MATLAB covers a variety of systems principles in telecommunications in an accessible format without the need to master a large body of theory. The text puts the focus on topics such as radio and wireless modulation, reception and transmission, wired networks and fiber optic communications. The book also explores packet networks and TCP/IP as well as digital source and channel coding, and the fundamentals of data encryption. Since MATLAB® is widely used by telecommunications engineers, it was chosen as the vehicle to demonstrate many of the basic ideas, with code examples presented in every chapter. The text addresses digital communications with coverage of packet-switched networks. Many fundamental concepts such as routing via shortest-path are introduced with simple and concrete examples. The treatment of advanced telecommunications topics extends to OFDM for wireless modulation, and public-key exchange algorithms for data encryption. Throughout the book, the author puts the emphasis on understanding rather than memorization. The text also: Includes many useful take-home skills that can be honed while studying each aspect of telecommunications Offers a coding and experimentation approach with many real-world examples provided Gives information on the underlying theory in order to better understand conceptual developments Suggests a valuable learn-by-doing approach to the topic Written for students of telecommunications engineering, Communication Systems Principles Using MATLAB® is the hands-on resource for mastering the basic concepts of telecommunications in a learn-by-doing format.

Exploratory Data Analysis with MATLAB Wendy L. Martinez 2017-08-07 Praise for the Second Edition: "The authors present an intuitive and easy-to-read book. ... accompanied by many examples, proposed exercises, good references, and comprehensive appendices that initiate the reader unfamiliar with MATLAB." —Adolfo Alvarez Pinto, International Statistical Review "Practitioners of EDA who use MATLAB will want a copy of this book. ... The authors have done a great service by bringing together so

many EDA routines, but their main accomplishment in this dynamic text is providing the understanding and tools to do EDA. —David A Huckaby, MAA Reviews Exploratory Data Analysis (EDA) is an important part of the data analysis process. The methods presented in this text are ones that should be in the toolkit of every data scientist. As computational sophistication has increased and data sets have grown in size and complexity, EDA has become an even more important process for visualizing and summarizing data before making assumptions to generate hypotheses and models. Exploratory Data Analysis with MATLAB, Third Edition presents EDA methods from a computational perspective and uses numerous examples and applications to show how the methods are used in practice. The authors use MATLAB code, pseudo-code, and algorithm descriptions to illustrate the concepts. The MATLAB code for examples, data sets, and the EDA Toolbox are available for download on the book's website. New to the Third Edition Random projections and estimating local intrinsic dimensionality Deep learning autoencoders and stochastic neighbor embedding Minimum spanning tree and additional cluster validity indices Kernel density estimation Plots for visualizing data distributions, such as beanplots and violin plots A chapter on visualizing categorical data

C How to Program Paul J. Deitel 2015-03-09 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For courses in computer programming *C How to Program* is a comprehensive introduction to programming in C. Like other texts of the Deitels' *How to Program* series, the book serves as a detailed beginner source of information for college students looking to embark on a career in coding, or instructors and software-development professionals seeking to learn how to program with C. The Eighth Edition continues the tradition of the signature Deitel "Live Code" approach--presenting concepts in the context of full-working programs rather than incomplete snips of code. This gives readers a chance to run each program as they study it and see how their learning applies to real world programming scenarios.

MATLAB Rao V. Dukkipati 2010 This book presents an introduction to MATLAB and its applications in engineering problem solving. It is designed as an introductory course in MATLAB for engineers. The classical methods of electrical circuits, control systems, numerical methods, optimization, direct numerical integration methods, engineering mechanics and mechanical vibrations are covered using MATLAB software. The numerous worked examples and unsolved exercise problems are intended to provide the reader with an awareness of the general applicability to electrical circuits, control systems, numerical methods, optimization, direct numerical integration methods, engineering mechanics and mechanical vibrations using MATLAB

Numerical Methods for Engineers and Scientists Amos Gilat 2013-10-14 *Numerical Methods for Engineers and Scientists*, 3rd Edition provides engineers with a more concise treatment of the essential topics of numerical methods while emphasizing MATLAB use. The third edition includes a new chapter, with all new content, on Fourier Transform and a new chapter on Eigenvalues (compiled from existing Second Edition content). The focus is placed on the use of anonymous functions instead of inline functions and the uses of subfunctions and nested functions. This updated edition includes 50% new or updated Homework Problems, updated examples, helping engineers test their understanding and reinforce key concepts.

Silver Currency For South America Anonymous 2019-03-24 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have

been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Introduction to Probability and Its Applications Richard L. Scheaffer 2010 In this calculus-based text, theory is developed to a practical degree around models used in real-world applications.

Introduction to Statistics and Data Analysis Christian Heumann 2017-01-26 This introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. In the experimental sciences and interdisciplinary research, data analysis has become an integral part of any scientific study. Issues such as judging the credibility of data, analyzing the data, evaluating the reliability of the obtained results and finally drawing the correct and appropriate conclusions from the results are vital. The text is primarily intended for undergraduate students in disciplines like business administration, the social sciences, medicine, politics, macroeconomics, etc. It features a wealth of examples, exercises and solutions with computer code in the statistical programming language R as well as supplementary material that will enable the reader to quickly adapt all methods to their own applications.

Fundamentals of Logic Design, Enhanced Edition, Loose-Leaf Version Jr. Charles H. Roth 2020

PSPICE and MATLAB for Electronics John Okyere Attia 2010-06-23 Used collectively, PSPICE and MATLAB are unsurpassed for circuit modeling and data analysis. PSPICE can perform DC, AC, transient, Fourier, temperature, and Monte Carlo analysis of electronic circuits with device models and subsystem subcircuits. MATLAB can then carry out calculations of device parameters, curve fitting, numerical integration, nume

R and MATLAB David E. Hiebeler 2018-09-03 The First Book to Explain How a User of R or MATLAB Can Benefit from the Other In today's increasingly interdisciplinary world, R and MATLAB® users from different backgrounds must often work together and share code. R and MATLAB® is designed for users who already know R or MATLAB and now need to learn the other platform. The book makes the transition from one platform to the other as quick and painless as possible. Enables R and MATLAB Users to Easily Collaborate and Share Code The author covers essential tasks, such as working with matrices and vectors, writing functions and other programming concepts, graphics, numerical computing, and file input/output. He highlights important differences between the two platforms and explores common mistakes that are easy to make when transitioning from one platform to the other.

Statistics for People Who (Think They) Hate Statistics Neil J. Salkind 2007 Now in its third edition, this title teaches an often intimidating and difficult subject in a way that is informative, personable, and clear.

Environmental Engineering James R. Mihelcic 2014-01-13 Environmental Engineering: Fundamentals, Sustainability, Design presents civil engineers with an introduction to chemistry and

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biology, through a mass and energy balance approach. ABET required topics of emerging importance, such as sustainable and global engineering are also covered. Problems, similar to those on the FE and PE exams, are integrated at the end of each chapter. Aligned with the National Academy of Engineering's focus on managing carbon and nitrogen, the 2nd edition now includes a section on advanced technologies to more effectively reclaim nitrogen and phosphorous. Additionally, readers have immediate access to web modules, which address a specific topic, such as water and wastewater treatment. These modules include media rich content such as animations, audio, video and interactive problem solving, as well as links to explorations. Civil engineers will gain a global perspective, developing into innovative leaders in sustainable development.

Power Electronics with MATLAB L. Ashok Kumar 2017-11-24 "Discusses the essential concepts of power electronics through MATLAB examples and simulations"--

Matlab for Engineers Holly Moore 2011-07-28 This is a value pack of MATLAB for Engineers: International Version and MATLAB & Simulink Student Version 2011a

Spreadsheet Tools for Engineers Using Excel Byron S. Gottfried 2007 This best-selling Spreadsheet book provides excellent coverage of all versions of Excel including the latest version, Excel 2002. It discusses how to use Excel to solve a variety of problems in introductory engineering analysis, such as graphing data, unit conversions, simple statistical analysis, sorting, searching and analyzing data, curve fitting, interpolation, solving algebraic equations, logical decisions, evaluating integrals, comparing economic alternatives, and finding optimum solutions. Numerous examples are included illustrating both traditional and spreadsheet solutions to a variety of problems. The underlying mathematical solution procedures are also discussed, so that the reader is provided with an understanding of what the spreadsheet does and how it does it.

MATLAB for Behavioral Scientists David A. Rosenbaum 2012-12-06 Behavioral scientists use computers in virtually all their work—from data collection to analysis, presentation, and simulation. However, there has been no book written to date specifically for behavioral scientists on how to program with a general-purpose programming language. *MATLAB for Behavioral Scientists* is a tremendously valuable textbook that walks behavioral scientists through the computer programming process, using terms that are relevant to their concerns and appreciating their special programming needs. Author David A. Rosenbaum, a cognitive psychologist with a Ph.D. in experimental psychology, introduces Matrix Laboratory (MATLAB), a powerful computer programming language with an active community of users engaged in many branches of science and engineering. Among its many attractive features, MATLAB offers high-level commands for performing calculations with large as well as small data sets and for generating publication-quality graphics. Throughout the text, Rosenbaum presents each new principle with one or more illustrations of usable code. In addition, each chapter begins with suggestions regarding which actions to perform, followed by the commands required to do so. The book easily functions as a reference source so that readers can turn to a section of interest and quickly obtain the information desired. An accompanying Web site lists programs and code output, complete with color, motion, and sound. This textbook will grant behavioral scientists the intellectual freedom to perform virtually any computational function in solving problems, and consequently may allow practitioners to think, write, and speak more clearly.

MATLAB Programming for Engineers Stephen J. Chapman 2015-05-08 Emphasizing problem-solving skills throughout, this fifth edition of Chapman's highly successful book teaches MATLAB as a technical programming language, showing students how to write clean, efficient, and well-documented programs,

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while introducing them to many of the practical functions of MATLAB. The first eight chapters are designed to serve as the text for an Introduction to Programming / Problem Solving course for first-year engineering students. The remaining chapters, which cover advanced topics such as I/O, object-oriented programming, and Graphical User Interfaces, may be covered in a longer course or used as a reference by engineering students or practicing engineers who use MATLAB. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

An Engineer's Guide to MATLAB Edward B. Magrab 2011 An Engineer's Guide to MATLAB, 3/e, is an authoritative guide to generating readable, compact, and verifiably correct MATLAB programs. It is ideal for undergraduate engineering courses in Mechanical, Aeronautical, Civil, and Electrical engineering that require/use MATLAB. This highly respected guide helps students develop a strong working knowledge of MATLAB that can be used to solve a wide range of engineering problems. Since solving these problems usually involves writing relatively short, one-time-use programs, the authors demonstrate how to effectively develop programs that are compact yet readable, easy to debug, and quick to execute. Emphasis is on using MATLAB to obtain solutions to several classes of engineering problems, so technical material is presented in summary form only. The new edition has been thoroughly revised and tested for software release 2009.

Introduction to Random Signals and Applied Kalman Filtering with Matlab Exercises and Solutions Robert Grover Brown 1997 In this updated edition the main thrust is on applied Kalman filtering. Chapters 1-3 provide a minimal background in random process theory and the response of linear systems to random inputs. The following chapter is devoted to Wiener filtering and the remainder of the text deals with various facets of Kalman filtering with emphasis on applications. Starred problems at the end of each chapter are computer exercises. The authors believe that programming the equations and analyzing the results of specific examples is the best way to obtain the insight that is essential in engineering work.

Modern Business Statistics with Microsoft Excel David R. Anderson 2014-01-01 MODERN BUSINESS STATISTICS, 5E allows students to gain a strong conceptual understanding of statistics with a balance of real-world applications and a focus on the integrated strengths of Microsoft Excel 2013. To ensure student understanding, this best-selling, comprehensive text carefully discusses and clearly develops each statistical technique in a solid application setting. Microsoft Excel 2013 instruction, which is integrated in each chapter, plays an integral part in strengthening this edition's applications orientation. Immediately after each easy-to-follow presentation of a statistical procedure, a subsection discusses how to use Excel to perform the procedure. This integrated approach emphasizes the applications of Excel while focusing on the statistical methodology. Step-by-step instructions and screen captures further clarify student learning. A wealth of timely business examples, proven methods, and additional exercises throughout this edition demonstrate how statistical results provide insights into business decisions and present solutions to contemporary business problems. High-quality problems noted for their unwavering accuracy and the authors' signature problem-scenario approach clearly show how to apply statistical methods to practical business situations. New case problems and self-tests allow students to challenge their personal understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Getting Started with MATLAB 5 Pratap Rudra 1999

The Time Cleanse: A Proven System to Eliminate Wasted Time, Realize Your Full Potential, and Reinvest in What Matters Most Steven Griffith 2018-12-14 Publisher's Note: Products purchased from Third

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Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. What's the number one thing we all want more of? TIME. Time is our most valuable, precious, and limited commodity—and the key to lasting happiness and success. The TIME CLEANSE™ is a proven system that shows you how to do more, get more, be more by changing your relationship with time and get back 20 hours a week or more of your free time as a result. Learn how you can squeeze every drop of productivity out of each hour of your day so you can gain the freedom to do what you want when you want! In *The Time Cleanse*, Steven Griffith will help you realize that time is not the real reason we're stuck, stopped, or struggling to reach our goals. It's the fact we are relying on outdated time management strategies that no longer work in today's technology driven world. We need to change how we look at our relationship with time—and *The Time Cleanse* does exactly that by showing you how to get time back on your side. By implementing the groundbreaking principles of *The Time Cleanse*, you will learn to eliminate the time toxins and contaminants that have been stealing your time, energy, and focus—while also increasing your productivity and improving your performance. By adding time to your day, you will finally have time to grow your business, spend time with loved ones, advance your career, improve your health and fitness, or just relax and enjoy life. It's time to take control of your life and your future. It's your time, right now, to MAKE YOUR MOVE.

Matlab Amos Gilat 2017-07-17 In MATLAB, Learn the essential skills needed to use the flexible MATLAB system. You will be able to apply the highly modular system towards the purposes you need by harnessing the power of its different toolboxes. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

Applied Numerical Methods with MATLAB for Engineers and Scientists Steven C. Chapra 2008 Steven Chapra's second edition, *Applied Numerical Methods with MATLAB for Engineers and Scientists*, is written for engineers and scientists who want to learn numerical problem solving. This text focuses on problem-solving (applications) rather than theory, using MATLAB, and is intended for Numerical Methods users; hence theory is included only to inform key concepts. The second edition feature new material such as Numerical Differentiation and ODE's: Boundary-Value Problems. For those who require a more theoretical approach, see Chapra's best-selling *Numerical Methods for Engineers*, 5/e (2006), also by McGraw-Hill.

Transport Modeling for Environmental Engineers and Scientists Mark M. Clark 2011-09-20 *Transport Modeling for Environmental Engineers and Scientists*, Second Edition, builds on integrated transport courses in chemical engineering curricula, demonstrating the underlying unity of mass and momentum transport processes. It describes how these processes underlie the mechanics common to both pollutant transport and pollution control processes.

Matlab Stormy Attaway 2013-06-03 *MatLab*, Third Edition is the only book that gives a full introduction to programming in MATLAB combined with an explanation of the software's powerful functions, enabling engineers to fully exploit its extensive capabilities in solving engineering problems. The book provides a systematic, step-by-step approach, building on concepts throughout the text, facilitating easier learning. Sections on common pitfalls and programming guidelines direct students towards best practice. The book is organized into 14 chapters, starting with programming concepts such as variables,

assignments, input/output, and selection statements; moves onto loops; and then solves problems using both the 'programming concept' and the 'power of MATLAB' side-by-side. In-depth coverage is given to input/output, a topic that is fundamental to many engineering applications. Vectorized Code has been made into its own chapter, in order to emphasize the importance of using MATLAB efficiently. There are also expanded examples on low-level file input functions, Graphical User Interfaces, and use of MATLAB Version R2012b; modified and new end-of-chapter exercises; improved labeling of plots; and improved standards for variable names and documentation. This book will be a valuable resource for engineers learning to program and model in MATLAB, as well as for undergraduates in engineering and science taking a course that uses (or recommends) MATLAB. Presents programming concepts and MATLAB built-in functions side-by-side Systematic, step-by-step approach, building on concepts throughout the book, facilitating easier learning Sections on common pitfalls and programming guidelines direct students towards best practice

MATLAB for Engineering Applications William John Palm (III) 2018

An Introduction to Mathematical Modeling Edward A. Bender 2012-05-23 Accessible text features over 100 reality-based examples pulled from the science, engineering, and operations research fields. Prerequisites: ordinary differential equations, continuous probability. Numerous references. Includes 27 black-and-white figures. 1978 edition.

Numerical Methods for Engineers and Scientists, 3rd Edition Amos Gilat 2013-09-30 Numerical Methods for Engineers and Scientists, 3rd Edition provides engineers with a more concise treatment of the essential topics of numerical methods while emphasizing MATLAB use. The third edition includes a new chapter, with all new content, on Fourier Transform and a new chapter on Eigenvalues (compiled from existing Second Edition content). The focus is placed on the use of anonymous functions instead of inline functions and the uses of subfunctions and nested functions. This updated edition includes 50% new or updated Homework Problems, updated examples, helping engineers test their understanding and reinforce key concepts.

Essentials of Materials Science and Engineering Donald R. Askeland 2018-02-08 Discover why materials behave as the way they do with ESSENTIALS OF MATERIALS SCIENCE AND ENGINEERING, 4TH Edition. Materials engineering explains how to process materials to suit specific engineering designs. Rather than simply memorizing facts or lumping materials into broad categories, you gain an understanding of the whys and hows behind materials science and engineering. This knowledge of materials science provides an important a framework for comprehending the principles used to engineer materials. Detailed solutions and meaningful examples assist in learning principles while numerous end-of-chapter problems offer significant practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

By the People James A. Morone 2014-12-15 In a storytelling approach that weaves contemporary examples together with historical context, *By the People* explores the themes and ideas that drive the great debates in American government and politics. It introduces students to big questions like: Who governs? How does our system of government work? What does government do? and Who are we? By challenging students with these questions, the text gets them to think about, engage with, and debate the merits of U.S. government and politics. Ideal for professors who prefer a shorter text, *By the People, Brief Second Edition*, condenses the content of the comprehensive edition while also preserving its essential insights, organization, and approach.

Analysis with an Introduction to Proof Steven R. Lay 2015-12-03 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For courses in undergraduate Analysis and Transition to Advanced Mathematics. Analysis with an Introduction to Proof, Fifth Edition helps fill in the groundwork students need to succeed in real analysis—often considered the most difficult course in the undergraduate curriculum. By introducing logic and emphasizing the structure and nature of the arguments used, this text helps students move carefully from computationally oriented courses to abstract mathematics with its emphasis on proofs. Clear expositions and examples, helpful practice problems, numerous drawings, and selected hints/answers make this text readable, student-oriented, and teacher- friendly.

Numerical Analysis Timothy Sauer 2013-07-26 Numerical Analysis, Second Edition, is a modern and readable text for the undergraduate audience. This book covers not only the standard topics but also some more advanced numerical methods being used by computational scientists and engineers—topics such as compression, forward and backward error analysis, and iterative methods of solving equations—all while maintaining a level of discussion appropriate for undergraduates. Each chapter contains a Reality Check, which is an extended exploration of relevant application areas that can launch individual or team projects. MATLAB(r) is used throughout to demonstrate and implement numerical methods. The Second Edition features many noteworthy improvements based on feedback from users, such as new coverage of Cholesky factorization, GMRES methods, and nonlinear PDEs.

MATLAB and Its Applications in Engineering Raj Kumar Bansal 2009 The book serves to be both a textbook and a reference for the theory and laboratory courses offered to undergraduate and graduate engineering students, and for practicing engineers.

Modeling of Curves and Surfaces with MATLAB® Vladimir Rovenski 2010-06-10 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.

Stress, Strain, and Structural Dynamics Bingen Yang 2005-04-07 Stress, Strain, and Structural Dynamics is a comprehensive and definitive reference to statics and dynamics of solids and structures, including mechanics of materials, structural mechanics, elasticity, rigid-body dynamics, vibrations, structural dynamics, and structural controls. This text integrates the development of fundamental theories, formulas and mathematical models with user-friendly interactive computer programs, written in the powerful and popular MATLAB. This unique merger of technical referencing and interactive computing allows instant solution of a variety of engineering problems, and in-depth exploration of the physics of deformation, stress and motion by analysis, simulation, graphics, and animation. This book is ideal for both professionals and students dealing with aerospace, mechanical, and civil engineering, as well as naval architecture, biomechanics, robotics, and mechatronics. For engineers and specialists, the book is a valuable resource and handy design tool in research and development. For engineering students at both undergraduate and graduate levels, the book serves as a useful study guide and powerful learning aid in many courses. And for instructors, the book offers an easy and efficient

approach to curriculum development and teaching innovation. Combines knowledge of solid mechanics-including both statics and dynamics, with relevant mathematical physics and offers a viable solution scheme. Will help the reader better integrate and understand the physical principles of classical mechanics, the applied mathematics of solid mechanics, and computer methods. The Matlab programs will allow professional engineers to develop a wider range of complex engineering analytical problems, using closed-solution methods to test against numerical and other open-ended methods. Allows for solution of higher order problems at earlier engineering level than traditional textbook approaches.

MATLAB Programming with Applications for Engineers Stephen J. Chapman 2012-01-01 MATLAB PROGRAMMING WITH APPLICATIONS FOR ENGINEERS seeks to simultaneously teach MATLAB as a technical programming language while introducing the student to many of the practical functions that make solving problems in MATLAB so much easier than in other languages. The book provides a complete introduction to the fundamentals of good procedural programming. It aids students in developing good design habits that will serve them well in any other language that he or she may pick up later. Programming topics and examples are used as a jumping off point for exploring the rich set of highly optimized application functions that are built directly into MATLAB. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.