

Applied Mathematics 4th Edition Solutions

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It is your entirely own era to put it on reviewing habit. among guides you could enjoy now is **Applied Mathematics 4th Edition Solutions** below.

Student Solutions Manual for Dielman's Applied Regression Analysis Terry Dielman 2004-04
Provides worked-out solutions to odd-numbered problems in the text.

Discrete Mathematics with Applications

Susanna S. Epp 2018-12-17 Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Math in Our World David Sobecki 2010-01-20
The author team of Dave Sobecki, Angela Matthews, and Allan Bluman have worked together to create the second edition of Mathematics in Our World, an engaging text catered to the needs of today's liberal arts mathematics students. This revision focuses strict attention to a clear and friendly writing style, integration of numerous relevant real-world examples and applications, and

implementation of the step-by-step approach used for years in Bluman's Elementary Statistics: A Step by Step Approach. The result is an exceptionally engaging text that is able to both effectively and creatively convey the basic concepts fundamental to a liberal arts math curriculum for even the most hesitant student.

Introduction to Differential Equations with Dynamical Systems

Stephen L. Campbell 2011-10-14 Many textbooks on differential equations are written to be interesting to the teacher rather than the student. Introduction to Differential Equations with Dynamical Systems is directed toward students. This concise and up-to-date textbook addresses the challenges that undergraduate mathematics, engineering, and science students experience during a first course on differential equations. And, while covering all the standard parts of the subject, the book emphasizes linear constant coefficient equations and applications, including the topics essential to engineering students. Stephen Campbell and Richard Haberman--using carefully worded derivations, elementary explanations, and examples, exercises, and figures rather than theorems and proofs--have written a book that makes learning and teaching differential equations easier and more relevant. The book also presents elementary dynamical systems in a unique and flexible way that is suitable for all courses, regardless of length.

Applied Mathematics For The Managerial, Life, & Social Sciences [solutions Manual Only] 4th Edition Soo Tang Tan 2006-01-01 1.

FUNDAMENTALS OF ALGEBRA. Real Numbers. Polynomials. Factoring Polynomials. Rational Expressions. Integral Exponents. Solving

Equations. Rational Exponents and Radicals. Quadratic Equations. Inequalities and Absolute Value. 2. FUNCTIONS AND THEIR GRAPHS. The Cartesian Coordinate System and Straight Lines. Equations of Lines. Functions and Their Graphs. The Algebra of Functions. Linear Functions. Quadratic Functions. Functions and Mathematical Models. 3. EXPONENTIAL AND LOGARITHMIC FUNCTIONS. Exponential Functions. Logarithmic Functions. Exponential Functions as Mathematical Models. 4. MATHEMATICS OF FINANCE. Compound Interest. Annuities. Amortization and Sinking Funds. Arithmetic and Geometric Progressions (Optional). 5. SYSTEMS OF LINEAR EQUATIONS AND MATRICES. Systems of Linear Equations: An Introduction. Systems of Linear Equations: Unique Solutions. Systems of Linear Equations: Undetermined and Overdetermined Systems. Matrices. Multiplication of Matrices. The Inverse of a Square Matrix. 6. LINEAR PROGRAMMING. Graphing Systems of Linear Inequalities in Two Variables. Linear Programming Problems. Graphical Solution of Linear Programming Problems. The Simplex Method: Standard Maximization Problems. The Simplex Method: Standard Minimization Problems. 7. SETS AND PROBABILITY. Sets and Set Operations. The Number of Elements in a Finite Set. The Multiplication Principle. Permutations and Combinations. Experiments, Sample Spaces, and Events. Probability. Rules of Probability. 8. ADDITIONAL TOPICS IN PROBABILITY. Use of Counting Techniques in Probability. Conditional Probability and Independent Events. Bayes' Theorem. Distributions of Random Variables. Expected Value. Variance and Standard Deviation. 9. THE DERIVATIVE. Limits. Continuity. The Derivative. Basic Rules of Differentiation. The Product and Quotient Rules: Higher-Order Derivatives. The Chain Rule. Differentiation of Exponential and Logarithmic Functions. Marginal Functions in Economics. 10. APPLICATIONS OF THE DERIVATIVE. Applications of the First Derivative. Applications of the Second Derivative. Curve Sketching. Optimization I. Optimization II. 11. INTEGRATION. Antiderivatives and the Rules of Integration. Integration by Substitution. Area and the Definite Integral. The Fundamental

Theorem of Calculus. Evaluating Definite Integrals. Area between Two Curves. Applications of the Definite Integral to Business and Economics. 12. CALCULUS OF SEVERAL VARIABLES. Functions of Several Variables. Partial Derivatives. Maxima and Minima of Functions of Several Variables. **Lectures on Differential Equations** Philip L. Korman 2019-08-30 Lectures on Differential Equations provides a clear and concise presentation of differential equations for undergraduates and beginning graduate students. There is more than enough material here for a year-long course. In fact, the text developed from the author's notes for three courses: the undergraduate introduction to ordinary differential equations, the undergraduate course in Fourier analysis and partial differential equations, and a first graduate course in differential equations. The first four chapters cover the classical syllabus for the undergraduate ODE course leavened by a modern awareness of computing and qualitative methods. The next two chapters contain a well-developed exposition of linear and nonlinear systems with a similarly fresh approach. The final two chapters cover boundary value problems, Fourier analysis, and the elementary theory of PDEs. The author makes a concerted effort to use plain language and to always start from a simple example or application. The presentation should appeal to, and be readable by, students, especially students in engineering and science. Without being excessively theoretical, the book does address a number of unusual topics: Massera's theorem, Lyapunov's inequality, the isoperimetric inequality, numerical solutions of nonlinear boundary value problems, and more. There are also some new approaches to standard topics including a rethought presentation of series solutions and a nonstandard, but more intuitive, proof of the existence and uniqueness theorem. The collection of problems is especially rich and contains many very challenging exercises. Philip Korman is professor of mathematics at the University of Cincinnati. He is the author of over one hundred research articles in differential equations and the monograph *Global Solution Curves for Semilinear Elliptic Equations*. Korman has served on the editorial boards of

Communications on Applied Nonlinear Analysis, Electronic Journal of Differential Equations, SIAM Review, and Differential Equations and Applications.

Applied Mathematics for Business, Economics, and the Social Sciences Frank S. Budnick 1993

The text is intended for the combined two-semester finite math and calculus course, primarily for business, economics, and social and life science majors. This edition includes more preliminary material, new motivational scenarios, and an increased orientation toward using the computer as a tool for performing mathematical analyses (text-specific software available).

Written Solutions to Odd Numbered Exercises to Mathematic for Business, 4th Edition

Natalie Yang 2017-06-11 Natalie Yang is an instructor in the Information Systems and Decision Sciences Department at Fairleigh Dickinson University since Fall 2015. Prior to that she has taught mathematics and statistics at community colleges and universities where she earned many teaching awards. She holds a B. S. degree in Applied Mathematics from the University of Alabama at Tuscaloosa and an M. S. degree in Operations Research from the University of Kentucky at Lexington. She is a co-author to the book: "Mathematics for Business, 4th Edition."

Applied Partial Differential Equations J. David Logan 2012-12-06 This textbook is for the standard, one-semester, junior-senior course that often goes by the title "Elementary Partial Differential Equations" or "Boundary Value Problems;" The audience usually consists of students in mathematics, engineering, and the physical sciences. The topics include derivations of some of the standard equations of mathematical physics (including the heat equation, the wave equation, and the Laplace's equation) and methods for solving those equations on bounded and unbounded domains. Methods include eigenfunction expansions or separation of variables, and methods based on Fourier and Laplace transforms. Prerequisites include calculus and a post-calculus differential equations course. There are several excellent texts for this course, so one can legitimately ask why one would wish to write another. A survey of the content of the existing titles shows that

their scope is broad and the analysis detailed; and they often exceed five hundred pages in length. These books generally have enough material for two, three, or even four semesters. Yet, many undergraduate courses are one-semester courses. The author has often felt that students become a little uncomfortable when an instructor jumps around in a long volume searching for the right topics, or only partially covers some topics; but they are secure in completely mastering a short, well-defined introduction. This text was written to provide a brief, one-semester introduction to partial differential equations.

Applied Mathematics for Business, Economics, and the Social Sciences Sandra C. Quinn 1993-01-01

Solution Manual for Partial Differential Equations for Scientists and Engineers

Stanley J. Farlow 2020 Complete solutions for all problems contained in a widely used text for advanced undergraduates in mathematics. Covers diffusion-type problems, hyperbolic-type problems, elliptic-type problems, and numerical and approximate methods. 2016 edition.

Applied Calculus, Student Solutions Manual Deborah Hughes-Hallett 2010-01-19 The Student Solutions Manual to accompany Hughes Hallett Applied Calculus Fourth Edition contains complete solutions to half of the odd-numbered problems in the text. These step-by-step solutions follow the methods used in the main text's worked examples.

Applied Mathematics for Science and Engineering Larry A. Glasgow 2014-09-09 Prepare students for success in using applied mathematics for engineering practice and post-graduate studies • moves from one mathematical method to the next sustaining reader interest and easing the application of the techniques • Uses different examples from chemical, civil, mechanical and various other engineering fields • Based on a decade's worth of the authors lecture notes detailing the topic of applied mathematics for scientists and engineers • Concisely writing with numerous examples provided including historical perspectives as well as a solutions manual for academic adopters
Student Solutions Manual for Mathematics for Economics, fourth edition Michael Hoy 2022-07-26 This student solutions manual

contains solutions to odd-numbered exercises in the fourth edition of Mathematics for Economics.

Brownian Dynamics at Boundaries and Interfaces

Zeev Schuss 2013-08-15 Brownian dynamics serve as mathematical models for the diffusive motion of microscopic particles of various shapes in gaseous, liquid, or solid environments. The renewed interest in Brownian dynamics is due primarily to their key role in molecular and cellular biophysics: diffusion of ions and molecules is the driver of all life.

Brownian dynamics simulations are the numerical realizations of stochastic differential equations that model the functions of biological micro devices such as protein ionic channels of biological membranes, cardiac myocytes, neuronal synapses, and many more. Stochastic differential equations are ubiquitous models in computational physics, chemistry, biophysics, computer science, communications theory, mathematical finance theory, and many other disciplines. Brownian dynamics simulations of the random motion of particles, be it molecules or stock prices, give rise to mathematical problems that neither the kinetic theory of Maxwell and Boltzmann, nor Einstein's and Langevin's theories of Brownian motion could predict. This book takes the readers on a journey that starts with the rigorous definition of mathematical Brownian motion, and ends with the explicit solution of a series of complex problems that have immediate applications. It is aimed at applied mathematicians, physicists, theoretical chemists, and physiologists who are interested in modeling, analysis, and simulation of micro devices of microbiology. The book contains exercises and worked out examples throughout.

Applied Mathematics for Engineers and Physicists

Louis A. Pipes 2014-07-16 One of the most widely used reference books on applied mathematics for a generation, distributed in multiple languages throughout the world, this text is geared toward use with a one-year advanced course in applied mathematics for engineering students. The treatment assumes a solid background in the theory of complex variables and a familiarity with complex numbers, but it includes a brief review. Chapters are as self-contained as possible, offering instructors flexibility in designing their own

courses. The first eight chapters explore the analysis of lumped parameter systems. Succeeding topics include distributed parameter systems and important areas of applied mathematics. Each chapter features extensive references for further study as well as challenging problem sets. Answers and hints to select problem sets are included in an Appendix. This edition includes a new Preface by Dr. Lawrence R. Harvill. Dover (2014) republication of the third edition originally published by McGraw-Hill, New York, 1970. See every Dover book in print at www.doverpublications.com

Mathematics for Physical Chemistry

Robert G. Mortimer 2005-06-10 Mathematics for Physical Chemistry, Third Edition, is the ideal text for students and physical chemists who want to sharpen their mathematics skills. It can help prepare the reader for an undergraduate course, serve as a supplementary text for use during a course, or serve as a reference for graduate students and practicing chemists. The text concentrates on applications instead of theory, and, although the emphasis is on physical chemistry, it can also be useful in general chemistry courses. The Third Edition includes new exercises in each chapter that provide practice in a technique immediately after discussion or example and encourage self-study. The first ten chapters are constructed around a sequence of mathematical topics, with a gradual progression into more advanced material. The final chapter discusses mathematical topics needed in the analysis of experimental data. Numerous examples and problems interspersed throughout the presentations Each extensive chapter contains a preview, objectives, and summary Includes topics not found in similar books, such as a review of general algebra and an introduction to group theory Provides chemistry specific instruction without the distraction of abstract concepts or theoretical issues in pure mathematics

Calculus on Manifolds

Michael Spivak 1965 This book uses elementary versions of modern methods found in sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

Nonlinear Ordinary Differential Equations:

Problems and Solutions Dominic Jordan 2007-08-23 An ideal companion to the student textbook *Nonlinear Ordinary Differential Equations* 4th Edition (OUP, 2007) this text contains over 500 problems and solutions in nonlinear differential equations, many of which can be adapted for independent coursework and self-study.

Mathematical Proofs Gary Chartrand 2013 This book prepares students for the more abstract mathematics courses that follow calculus. The author introduces students to proof techniques, analyzing proofs, and writing proofs of their own. It also provides a solid introduction to such topics as relations, functions, and cardinalities of sets, as well as the theoretical aspects of fields such as number theory, abstract algebra, and group theory.

Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (Classic Version) Richard Haberman 2018-03-15 This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. *Applied Partial Differential Equations with Fourier Series and Boundary Value Problems* emphasizes the physical interpretation of mathematical solutions and introduces applied mathematics while presenting differential equations. Coverage includes Fourier series, orthogonal functions, boundary value problems, Green's functions, and transform methods. This text is ideal for readers interested in science, engineering, and applied mathematics.

Applied Mathematics R. Jesse Phagan 2010-01 Organized to follow the textbook on a chapter-by-chapter basis, providing questions to help the student review the material presented in the chapter. This supplement is a consumable resource, designed with perforated pages so that a given chapter can be removed and turned in for grading or checking.

Differential Equations and Their Applications Martin Braun 2013-11-27 Used in undergraduate classrooms across the USA, this is a clearly written, rigorous introduction to differential equations and their applications. Fully understandable to students who have had

one year of calculus, this book distinguishes itself from other differential equations texts through its engaging application of the subject matter to interesting scenarios. This fourth edition incorporates earlier introductory material on bifurcation theory and adds a new chapter on Sturm-Liouville boundary value problems. Computer programs in C, Pascal, and Fortran are presented throughout the text to show readers how to apply differential equations towards quantitative problems.

Handbook of Mathematics for Engineers and Scientists Andrei D. Polyandin 2006-11-27 The *Handbook of Mathematics for Engineers and Scientists* covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena.

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.

Math for Electricity & Electronics Dr. Arthur Kramer 2012-07-27 With its fresh reader-friendly design, MATHEMATICS FOR ELECTRICITY AND ELECTRONICS, 4E is more current, comprehensive, and relevant than ever before. Packed with practical exercises and examples, it equips learners with a thorough understanding of essential algebra and trigonometry for electricity and electronics technology, while helping them improve critical thinking skills. Well-illustrated information sharpens the reader's ability to think quantitatively, predict results, and troubleshoot effectively, while drill and practice sets reinforce comprehension. To ensure mastery of the latest ideas and technology, the text thoroughly explains all mathematical concepts, symbols, and formulas required by future technicians and technologists. In addition, a new homework solution offers a wealth of online resources to maximize study efforts as well as provides an online testing tool for instructors. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Modern Engineering Mathematics Glyn James 2010 Giving an applications-focused introduction to the field of Engineering Mathematics, this book presents the key mathematical concepts that engineers will be expected to know. It is also well suited to maths courses within the physical sciences and applied mathematics. It incorporates many exercises throughout the chapters.

Trends and Perspectives in Applied Mathematics Lawrence Sirovich 2012-12-06 This marks the 100th volume to appear in the Applied Mathematical Sciences series. Partial Differential Equations, by Fritz John, the first volume of the series, appeared in 1971. One year prior to its appearance, the then mathematics editor of Springer-Verlag, Klaus Peters, organized a meeting to look into the possibility of starting a series slanted toward applications.

The meeting took place in New Rochelle, at the home of Fritz and Charlotte John. K.O. Friedrichs, Peter Lax, Monroe Donsker, Joe Keller, and others from the Courant Institute (previously, the Institute for Mathematical Sciences) were present as were Joe LaSalle and myself, the two of us having traveled down from Providence for the meeting. The John home, a large, comfortable house, especially lent itself to the informal, relaxed, and wide-ranging discussion that ensued. What emerged was a consensus that mathematical applications appeared to be poised for a period of growth and that there was a clear need for a series committed to applied mathematics. The first paragraph of the editorial statement written at that time reads as follows: The mathematization of all sciences, the fading of traditional scientific boundaries, the impact of computer technology, the growing importance of mathematical-computer modeling and the necessity of scientific planning all create the need both in education and research for books that are introductory to and abreast of these developments.

Advanced Engineering Mathematics Carol D. Wright 2010-04-28 Previous Edition 9780763740955

Advanced Engineering Mathematics Dennis Zill 2011 Accompanying CD-ROM contains ... "a chapter on engineering statistics and probability / by N. Bali, M. Goyal, and C. Watkins."--CD-ROM label.

Berresford Applied Calculus Brief Plus Student Solutions Manual Fourth Edition Plus Eduspace Houghton Mifflin College Division 2007-08-01

Student Solutions Guide to Accompany Calculus Concepts Laurel Carpenter 2008

Applied Mathematics J. David Logan 2013-05-28 Praise for the Third Edition "Future mathematicians, scientists, and engineers should find the book to be an excellent introductory text for coursework or self-study as well as worth its shelf space for reference." —MAA Reviews Applied Mathematics, Fourth Edition is a thoroughly updated and revised edition on the applications of modeling and analyzing natural, social, and technological processes. The book covers a wide range of key topics in mathematical methods and modeling and highlights the connections between mathematics

and the applied and natural sciences. The Fourth Edition covers both standard and modern topics, including scaling and dimensional analysis; regular and singular perturbation; calculus of variations; Green's functions and integral equations; nonlinear wave propagation; and stability and bifurcation. The book provides extended coverage of mathematical biology, including biochemical kinetics, epidemiology, viral dynamics, and parasitic disease. In addition, the new edition features: Expanded coverage on orthogonality, boundary value problems, and distributions, all of which are motivated by solvability and eigenvalue problems in elementary linear algebra Additional MATLAB® applications for computer algebra system calculations Over 300 exercises and 100 illustrations that demonstrate important concepts New examples of dimensional analysis and scaling along with new tables of dimensions and units for easy reference Review material, theory, and examples of ordinary differential equations New material on applications to quantum mechanics, chemical kinetics, and modeling diseases and viruses Written at an accessible level for readers in a wide range of scientific fields, Applied Mathematics, Fourth Edition is an ideal text for introducing modern and advanced techniques of applied mathematics to upper-undergraduate and graduate-level students in mathematics, science, and engineering. The book is also a valuable reference for engineers and scientists in government and industry.

Basic Applied Mathematics for the Physical Sciences: Based on the syllabus of the University of Delhi University, 3/e

Recent Developments in the Solution of Nonlinear Differential Equations Bruno Carpentieri 2021-09-08 Nonlinear differential equations are ubiquitous in computational science and engineering modeling, fluid dynamics, finance, and quantum mechanics, among other areas. Nowadays, solving challenging problems in an industrial setting requires a continuous interplay between the theory of such systems and the development and use of sophisticated computational methods that can guide and support the theoretical findings via practical computer simulations. Owing to the impressive development in computer technology

and the introduction of fast numerical methods with reduced algorithmic and memory complexity, rigorous solutions in many applications have become possible. This book collects research papers from leading world experts in the field, highlighting ongoing trends, progress, and open problems in this critically important area of mathematics.

The Heart of Mathematics Edward B. Burger 2004-08-18 Hallmark features include: * A focus on the important ideas of mathematics that students will retain long after their formal studies are complete. * An engaging and humorous style, written to be read and enjoyed. * Ten Life Lessons that readers will apply beyond their study of mathematics. * Use of a variety of visualization techniques that direct students to model their thinking and to actively explore the world around them. New to this Edition: * A new chapter, Deciding Wisely: Applications of Rigorous Thought, provides a thought-provoking capstone. * Expanded and improved statistics and probability content in Chapter 7, Taming Uncertainty. * Enhanced Mindscapes at the end of each section which ask the reader to review, apply and think deeply about the ideas presented in the chapter. * Radically superior ancillary package.

Differential Equations and Their Applications M. Braun 2013-06-29 For the past several years the Division of Applied Mathematics at Brown University has been teaching an extremely popular sophomore level differential equations course. The immense success of this course is due primarily to two factors. First, and foremost, the material is presented in a manner which is rigorous enough for our mathematics and applied mathematics majors, but yet intuitive and practical enough for our engineering, biology, economics, physics and geology majors. Secondly, numerous case histories are given of how researchers have used differential equations to solve real life problems. This book is the outgrowth of this course. It is a rigorous treatment of differential equations and their applications, and can be understood by anyone who has had a two semester course in Calculus. It contains all the material usually covered in a one or two semester course in differential equations. In addition, it possesses the following unique features which distinguish

it from other textbooks on differential equations.

Linear Partial Differential Equations for Scientists and Engineers Tyn Myint-U
2007-04-05 This significantly expanded fourth edition is designed as an introduction to the theory and applications of linear PDEs. The authors provide fundamental concepts, underlying principles, a wide range of applications, and various methods of solutions to PDEs. In addition to essential standard material on the subject, the book contains new material that is not usually covered in similar texts and reference books. It also contains a large number of worked examples and exercises dealing with problems in fluid mechanics, gas dynamics, optics, plasma physics, elasticity, biology, and chemistry; solutions are provided.

Applied Calculus Brief 4th Edition Plus Student Solutions Manual Plus Mathspacecd Houghton Mifflin College Division
2006-12-01
Elementary Differential Equations Werner E. Kohler 2006 "Elementary Differential Equations integrates the underlying theory, the solution procedures, and the numerical/computational aspects of differential equations in a seamless way. For example, whenever a new type of problem is introduced (such as first-order equations, higher-order equations, systems of differential equations, etc.) the text begins with the basic existence-uniqueness theory. This provides the student the necessary framework to understand and solve differential equations. Theory is presented as simply as possible with an emphasis on how to use it."--Pub. desc.