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Multimedia Learning Richard E. Mayer 2009-01-12 Although verbal learning offers a powerful tool, Mayer explores ways of going beyond the purely verbal. Recent advances in graphics technology and information technology have prompted new efforts to understand the potential of multimedia learning as a means of promoting human understanding. In this second edition, Mayer includes double the number of experimental comparisons, 6 new principles - signalling, segmenting, pertaining, personalization, voice and image principles. The 12 principles of multimedia instructional design have been reorganized into three sections - reducing extraneous processing, managing essential processing and fostering generative processing. Finally an indication of the maturity of the field is that the second edition highlights boundary conditions for each principle research-based constraints on when a principle is likely or not likely to apply. The boundary conditions are interpreted in terms of the cognitive theory of multimedia learning, and help to enrich theories of multimedia learning.

Operator Theory, Analytic Functions, Matrices, and Electrical Engineering J. William Helton 1987 This book expands the lectures given at a regional conference in Lincoln, Nebraska which brought together a wide variety of scientists, pure mathematicians and engineers.

Scientific Computing in Electrical Engineering Andreas Bartel 2016-05-09 This book is a collection of selected papers presented at the 10th International Conference on Scientific Computing in Electrical Engineering (SCEE), held in Wuppertal, Germany in 2014. The book is divided into five parts, reflecting the main directions of SCEE 2014: 1. Device Modeling, Electric Circuits and Simulation, 2. Computational Electromagnetics, 3. Coupled Problems, 4. Model Order Reduction, and 5. Uncertainty Quantification. Each part starts with a general introduction followed by the actual papers. The aim of the SCEE 2014 conference was to bring together scientists from academia and industry, mathematicians, electrical engineers, computer scientists, and physicists, with the goal of fostering intensive discussions on industrially relevant mathematical problems, with an emphasis on the modeling and numerical simulation of electronic circuits and devices, electromagnetic fields, and coupled problems. The methodological focus was on model order reduction and uncertainty quantification. this book="" will="" appeal="" to="" mathematicians="" and="" electrical="" engineers.="" it="" offers="" a="" valuable="" starting="" point="" for="" developers="" of="" algorithms="" programs="" who="" want="" learn="" about="" recent="" advances="" in="" other="" fields="" as="" well="" open="" problems="" coming="" from="" industry.="" moreover,="" be="" use="" representatives="" industry="" with="" an="" interest="" new="" program="" tools="" mathematical="" methods.

Complex Analysis with Applications in Science and Engineering Harold Cohen 2010-04-23 The Second Edition of this acclaimed text helps you apply theory to real-world applications in mathematics, physics, and engineering. It easily guides you through complex analysis with its excellent coverage of topics such as series, residues, and the evaluation of integrals; multi-valued functions; conformal mapping; dispersion relations; and analytic continuation. Worked examples plus a large number of assigned problems help you understand how to apply complex concepts and build your own skills by putting them into practice. This edition features many new problems, revised sections, and an entirely new chapter on analytic continuation.

Mathematical Problems in Data Science Li M. Chen 2015-12-15 This book describes current problems in data science and Big Data. Key topics are data classification, Graph Cut, the Laplacian Matrix, Google Page Rank, efficient algorithms, hardness of problems, different types of big data, geometric data structures, topological data processing, and various learning methods. For unsolved problems such as incomplete data relation and reconstruction, the book includes possible solutions and both statistical and computational methods for data analysis. Initial chapters focus on exploring the properties of incomplete data sets and partial-connectedness among data points or data sets. Discussions also cover the completion problem of Netflix matrix; machine learning method on massive data sets; image segmentation and video search. This book introduces software tools for data science and Big Data such MapReduce, Hadoop, and Spark. This book contains three parts. The first part explores the fundamental tools of data science. It includes basic graph theoretical methods, statistical and AI methods for massive data sets. In second part, chapters focus on the procedural treatment of data science problems including machine learning methods, mathematical image and video processing, topological data analysis, and statistical methods. The final section provides case studies on special topics in variational learning, manifold learning, business and financial data rec overy, geometric search, and computing models. Mathematical Problems in Data Science is a valuable resource for researchers and professionals working in data science, information systems and networks. Advanced-level students studying computer science, electrical engineering and mathematics will also find the content helpful.

Pure and Applied Science Books, 1876-1982 1982 Over 220,000 entries representing some 56,000 Library of Congress subject headings. Covers all disciplines of science and technology, e.g., engineering, agriculture, and domestic arts. Also contains at least 5000 titles published before 1876. Has many applications in libraries, information centers, and other organizations concerned with scientific and technological literature. Subject index contains main listing of entries. Each entry gives cataloging as prepared by the Library of Congress. Author/title indexes.

Just-In-Time Math for Engineers Archibald Fripp 2003-08-26 Just-In-Time Math is a concise review and summary of the mathematical principles needed by all engineering professionals. Topics covered include differential calculus, integral calculus, complex numbers, differential equations, engineering statistics, and partial derivatives. Numerous example engineering problems are included to show readers how to apply mathematical techniques to a wide range of engineering situations. This is the perfect mathematics refresher for engineering professionals who use such math-intensive techniques as digital signal processing. Provides complete coverage of mathematical tools and techniques most commonly used by today's engineers Includes conversion tables, quick reference guides, and hundreds of solved example problems based on common engineering situations

Scientific Computing in Electrical Engineering Angelo Marcello Anile 2007-01-10 This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering (SCEE) Conference, held in Sicily, in 2004. The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry. The areas covered at SCEE-2004 were: Electromagnetism, Circuit

Simulation, Coupled Problems and General mathematical and computational methods.
Solving Applied Mathematical Problems with MATLAB 2008-11-03 This textbook presents a variety of applied mathematics topics in science and engineering with an emphasis on problem solving techniques using MATLAB®. The authors provide a general overview of the MATLAB language and its graphics abilities before delving into problem solving, making the book useful for readers without prior MATLAB experience. They explain how to generate code suitable for various applications so that readers can apply the techniques to problems not covered in the book. Examples, figures, and MATLAB scripts enable readers with basic mathematics knowledge to solve various applied math problems in their fields while avoiding unnecessary technical details.

Matlab Emilson Pereira Leite 2010

Conference Proceedings. New Perspectives in Science Education Pixel 2017

Issues in General and Specialized Mathematics Research: 2011 Edition 2012-01-09 Issues in General and Specialized Mathematics Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about General and Specialized Mathematics Research. The editors have built Issues in General and Specialized Mathematics Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about General and Specialized Mathematics Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in General and Specialized Mathematics Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Novel Mathematics Inspired by Industrial Challenges Michael Günther (Mathematician) 2022 This contributed volume convenes a rich selection of works with a focus on innovative mathematical methods with applications in real-world, industrial problems. Studies included in this book are all motivated by a relevant industrial challenge, and demonstrate that mathematics for industry can be extremely rewarding, leading to new mathematical methods and sometimes even to entirely new fields within mathematics. The book is organized into two parts: Computational Sciences and Engineering, and Data Analysis and Finance. In every chapter, readers will find a brief description of why such work fits into this volume; an explanation on which industrial challenges have been instrumental for their inspiration; and which methods have been developed as a result. All these contribute to a greater unity of the text, benefiting not only practitioners and professionals seeking information on novel techniques but also graduate students in applied mathematics, engineering, and related fields.

Number-Crunching Paul J. Nahin 2011-08-08 More stimulating mathematics puzzles from bestselling author Paul Nahin How do technicians repair broken communications cables at the bottom of the ocean without actually seeing them? What's the likelihood of plucking a needle out of a haystack the size of the Earth? And is it possible to use computers to create a universal library of everything ever written or every photo ever taken? These are just some of the intriguing questions that best-selling popular math writer Paul Nahin tackles in Number-Crunching. Through brilliant math ideas and entertaining stories, Nahin demonstrates how odd and unusual math problems can be solved by bringing together basic physics ideas and today's powerful computers. Some of the outcomes discussed are so counterintuitive they will leave readers astonished. Nahin looks at how the art of number-crunching has changed since the advent of computers, and how high-speed technology helps to solve fascinating conundrums such as the three-body, Monte Carlo, leapfrog, and gambler's ruin problems. Along the way, Nahin traverses topics that include algebra, trigonometry, geometry, calculus, number theory, differential equations, Fourier series, electronics, and computers in science fiction. He gives historical background for the problems presented, offers many examples and numerous

challenges, supplies MATLAB codes for all the theories discussed, and includes detailed and complete solutions. Exploring the intimate relationship between mathematics, physics, and the tremendous power of modern computers, Number-Crunching will appeal to anyone interested in understanding how these three important fields join forces to solve today's thorniest puzzles.

Advanced Mathematics for Electrical and Computer Engineers Randall L. Musselman 2021-07-30 Advanced Mathematics for Electrical and Computer Engineers, by Randall L. Musselman, applies comprehensive math topics specifically to electrical and computer-engineering applications. These topics include:?Discrete mathothe mathematics of computation?Probability and random variablesofundamental to communication theory and solid-state devices?Ordinary differential equationsothe mathematics of circuit analysis?Laplace transforms othat makes the math of circuit analysis much more manageable?Fourier series and Fourier transformsothe mathematical backbone of signal analysis?Partial differential equationsothe math description of waves and boundary value problems?Linear algebraothe mathematical language of modern robotics?Vector calculusofundamental to electromagnetism and radio-wave propagationThis book explores each of these topics their own chapters, employing electrical and computer-engineering examples as applications.

Electric Power Problems A. M. Erisman 1980-01-01

Transients for Electrical Engineers Paul J. Nahin 2018-07-05 This book offers a concise introduction to the analysis of electrical transients aimed at students who have completed introductory circuits and freshman calculus courses. While it is written under the assumption that these students are encountering transient electrical circuits for the first time, the mathematical and physical theory is not 'watered-down.' That is, the analysis of both lumped and continuous (transmission line) parameter circuits is performed with the use of differential equations (both ordinary and partial) in the time domain, and the Laplace transform. The transform is fully developed in the book for readers who are not assumed to have seen it before. The use of singular time functions (unit step and impulse) is addressed and illustrated through detailed examples. The appearance of paradoxical circuit situations, often ignored in many textbooks (because they are, perhaps, considered 'difficult' to explain) is fully embraced as an opportunity to challenge students. In addition, historical commentary is included throughout the book, to combat the misconception that the material in engineering textbooks was found engraved on Biblical stones, rather than painstakingly discovered by people of genius who often went down many wrong paths before finding the right one. MATLAB® is used throughout the book, with simple codes to quickly and easily generate transient response curves.

Integral Methods in Science and Engineering M. Zuhair Nashed 2006-11-24 The quantitative and qualitative study of the physical world makes use of many mathematical models governed by a great diversity of ordinary, partial differential, integral, and integro-differential equations. An essential step in such investigations is the solution of these types of equations, which sometimes can be performed analytically, while at other times only numerically. This edited, self-contained volume presents a series of state-of-the-art analytic and numerical methods of solution constructed for important problems arising in science and engineering, all based on the powerful operation of (exact or approximate) integration. The volume may be used as a reference guide and a practical resource. It is suitable for researchers and practitioners in applied mathematics, physics, and mechanical and electrical engineering, as well as graduate students in these disciplines.

Inverse Problems and Optimal Design in Electricity and Magnetism P. Neittaanmäki 1996-01-11 The impact of optimization methods in electromagnetism has been much less than in mechanical engineering and particularly the solution of inverse problems in structural mechanics. This book addresses this omission: it will serve as a guide to the theory as well as the computer implementation of solutions. It is self-contained covering all the mathematical theory necessary.

Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy 2004

The Cambridge Handbook of Multimedia Learning Richard E. Mayer 2014-07-28 In recent years, multimedia learning, or learning from words and images, has developed into a coherent discipline with a significant research base. The Cambridge Handbook of Multimedia Learning is unique in offering a comprehensive, up-to-date analysis of research and theory in the field, with a focus on computer-based learning. Since the first edition appeared in 2005, it has shaped the field and become the primary reference work for multimedia learning. Multimedia environments, including online presentations, e-courses, interactive lessons, simulation games, slideshows, and even textbooks, play a crucial role in education. This revised second edition incorporates the latest developments in multimedia learning and contains new chapters on topics such as drawing, video, feedback, working memory, learner control, and intelligent tutoring systems. It examines research-based principles to determine the most effective methods of multimedia instruction and considers research findings in the context of cognitive theory to explain how these methods work.

Scientific Computing in Electrical Engineering Martijn van Beurden

Computational Moving Boundary Problems M. Zerroukat 1994-09-27 Using an engineering perspective, it reviews and compares numerical methods and more recent contributions for solving both moving boundary and boundary value problems. Describes current advances in the finite difference solution of linear and nonlinear partial differential equations. Algorithmic manipulations which enhance the computational efficiency are incorporated into the overall schemes.

Mathematical Handbook for Electrical Engineers Sergeĭ Aleksandrovich Leonov 2005 When you are wracking your brains, trying to solve a complex, seemingly unsolvable problem, sometimes you just have to go back to the basics. To find a solution, you start at the very beginning and review the mathematical rules, laws, and formulas that that are at the root of every electrical engineering problem. This is when you reach for the Mathematical Handbook for Electrical Engineers. Written by electrical engineers, specifically for electrical engineers, this valuable resource presents the most common mathematical techniques used for problem solving and computer-aided analysis.

Advanced Engineering Mathematics, SI Edition Peter V. O'Neil 2017-01-27 O'Neil's ADVANCED ENGINEERING MATHEMATICS, 8E makes rigorous mathematical topics accessible to today's learners by emphasizing visuals, numerous examples, and interesting mathematical models. New Math in Context broadens the engineering connections by demonstrating how mathematical concepts are applied to current engineering problems. The reader has the flexibility to select from a variety of topics to study from additional posted web modules. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Scientific Computing in Electrical Engineering Ulrich Langer 2018-04-23 This collection of selected papers presented at the 11th International Conference on Scientific Computing in Electrical Engineering (SCEE), held in St. Wolfgang, Austria, in 2016, showcases the state of the art in SCEE. The aim of the SCEE 2016 conference was to bring together scientists from academia and industry, mathematicians, electrical engineers, computer scientists, and physicists, and to promote intensive discussions on industrially relevant mathematical problems, with an emphasis on the modeling and numerical simulation of electronic circuits and devices, electromagnetic fields, and coupled problems. The focus in methodology was on model order reduction and uncertainty quantification. This extensive reference work is divided into six parts: Computational Electromagnetics, Circuit and Device Modeling and Simulation, Coupled Problems and Multi-Scale Approaches in Space and Time, Mathematical and Computational Methods Including Uncertainty Quantification, Model Order Reduction, and Industrial Applications. Each part starts with a general introduction, followed by the respective contributions. This book will appeal to mathematicians and electrical engineers. Further, it introduces algorithm and program developers to recent advances in the other fields, while industry experts will be introduced to new programming tools and mathematical methods.

Integral Methods in Science and Engineering Christian Constanda 2011-07-25 An enormous array of problems encountered by scientists and engineers are based on the design of mathematical models using many different types of ordinary differential, partial differential, integral, and integro-differential equations. Accordingly, the solutions of these equations are of great interest to practitioners and to science in general. Presenting a wealth of cutting-edge research by a diverse group of experts in the field, Integral Methods in Science and Engineering: Computational and Analytic Aspects gives a vivid picture of both the development of theoretical integral techniques and their use in specific science and engineering problems. This book will be valuable for researchers in applied mathematics, physics, and mechanical and electrical engineering. It will likewise be a useful study guide for graduate students in these disciplines, and for various other professionals who use integration as an essential technique in their work.

Advanced Engineering Mathematics Peter V. O'Neil 2016-11-02 O'Neil's ADVANCED ENGINEERING MATHEMATICS, 8E makes rigorous mathematical topics accessible to today's learners by emphasizing visuals, numerous examples, and interesting mathematical models. New Math in Context broadens the engineering connections by demonstrating how mathematical concepts are applied to current engineering problems. The reader has the flexibility to select from a variety of topics to study from additional posted web modules. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Learning Strategies in Engineering Mathematics Birgit Griese 2017-02-28 Birgit Griese presents MP2-Math/Plus, a support project for first-year students in engineering at Ruhr-Universität Bochum that aims at preventing unnecessary drop-out. Conceptualisation and development of the project follow a design research approach according to Gravemeijer, Cobb, and van den Akker. The interventions focus on learning strategies which are collected in a pre-post design with the aid of the LIST questionnaire by Wild and Schiefele. These and other data are utilised for the evaluation of MP2-Math/Plus. The results confirm the adaptations of the project procedures in successive cycles, stress the importance of effort and motivation, and assess the success of the project.

Advanced Engineering Mathematics with MATLAB, Fourth Edition Dean G. Duffy 2016-12-12 Advanced Engineering Mathematics with MATLAB, Fourth Edition builds upon three successful previous editions. It is written for today's STEM (science, technology, engineering, and mathematics) student. Three assumptions under lie its structure: (1) All students need a firm grasp of the traditional disciplines of ordinary and partial differential equations, vector calculus and linear algebra. (2) The modern student must have a strong foundation in transform methods because they provide the mathematical basis for electrical and communication studies. (3) The biological revolution requires an understanding of stochastic (random) processes. The chapter on Complex Variables, positioned as the first chapter in previous editions, is now moved to Chapter 10. The author employs MATLAB to reinforce concepts and solve problems that require heavy computation. Along with several updates and changes from the third edition, the text continues to evolve to meet the needs of today's instructors and students.

Basic Mathematical Research for Electromagnetic Theory Morris Kline 1958 The objective of the research under this contract was to explore mathematical problems which arise in the field of theoretical electromagnetics, or to anticipate mathematical needs or methodology for electromagnetic problems. The Division of Electromagnetic Research has been tackling electromagnetic problems for a number of years and has found that many investigations have been hampered by the lack of available mathematical information or of methods.

Essential Math Skills for Engineers Clayton R. Paul 2011-09-20 Just the math skills you need to excel in the study or practice ofengineering Good math skills are indispensable for all engineers regardlessof their specialty, yet only a relatively small portion of the maththat engineering students study in college mathematics courses isused on a frequent basis in the study or practice of

engineering.That's why Essential Math Skills for Engineers focuses ononly these few critically essential math skills that students needin order to advance in their engineering studies and excel inengineering practice. Essential Math Skills for Engineers features concise,easy-to-follow explanations that quickly bring readers up to speedon all the essential core math skills used in the daily study andpractice of engineering. These fundamental and essential skills arelogically grouped into categories that make them easy to learnwhile also promoting their long-term retention. Among the key areascovered are: Algebra, geometry, trigonometry, complex arithmetic, anddifferential and integral calculus Simultaneous, linear, algebraic equations Linear, constant-coefficient, ordinary differentialequations Linear, constant-coefficient, difference equations Linear, constant-coefficient, partial differential equations Fourier series and Fourier transform Laplace transform Mathematics of vectors With the thorough understanding of essential math skills gainedfrom this text, readers will have mastered a key component of theknowledge needed to become successful students of engineering. Inaddition, this text is highly recommended for practicing engineerswho want to refresh their math skills in order to tackle problemsin engineering with confidence.

The Calculus Tutoring Book Carol Ash 1991-03-01 Based on real-world examples, this classic self-study course gives you the fundamental math techniques for solving problems in circuit analysis, voltage and current requirements, filter design, CAD, and many other areas. Course includes: study guide (350pp); diskette of computational algorithms; textbook, The Calculus Tutoring Book, by Carol and Robert Ash (IEEE Press 1993); final exam; 8 Continuing Education Units (CEUs); and a Certificate of Achievement upon successful completion.

Mathematical and Numerical Modelling in Electrical Engineering Theory and Applications Michal Krízek 2013-03-09 Mathematical modeling plays an essential role in science and engineering. Costly and time consuming experiments (if they can be done at all) are replaced by computational analysis. In industry, commercial codes are widely used. They are flexible and can be adjusted for solving specific problems of interest. Solving large problems with tens or hundreds of thousands unknowns becomes routine. The aim of analysis is to predict the behavior of the engineering and physical reality usually within the constraints of cost and time. Today, human cost and time are more important than computer cost. This trend will continue in the future. Agreement between computational results and reality is related to two factors, namely mathematical formulation of the problems and the accuracy of the numerical solution. The accuracy has to be understood in the context of the aim of the analysis. A small error in an inappropriate norm does not necessarily mean that the computed results are usable for practical purposes.

The Handy Math Answer Book Patricia Barnes-Svarney 2012-05-01 From modern-day challenges such as balancing a checkbook, following the stock market, buying a home, and figuring out credit card finance charges to appreciating historical developments by Pythagoras, Archimedes, Newton, and other mathematicians, this engaging resource addresses more than 1,000 questions related to mathematics. Organized into chapters that cluster similar topics in an easily accessible format, this reference provides clear and concise explanations about the fundamentals of algebra, calculus, geometry, trigonometry, and other branches of mathematics. It contains the latest mathematical discoveries, including newly uncovered historical documents and updates on how science continues to use math to make cutting-edge innovations in DNA sequencing, superstring theory, robotics, and computers. With fun math facts and illuminating figures, The Handy Math Answer Book explores the uses of math in everyday life and helps the mathematically challenged better understand and enjoy the magic of numbers.

Applications of Statistics and Probability in Electrical Engineering Dr William J Jameson 1999-10-01 Devised specifically for the electrical engineers who want to tackle advanced engineering problems, this exciting new self-study course offers comprehensive coverage of variability (statistics), stiff differentials, optimization, and partial differential equations-all discussed in relation to real-world applications in electrical engineering. It is also an excellent way to review basic concepts. Prerequisites include standard engineering math courses such as calculus and differential equations; some exposure to field problems and elementary statistics are helpful.

Resources in Education 1985

Mrs. Perkins's Electric Quilt Paul J. Nahin 2009-08-17 What does quilting have to do with electric circuit theory? The answer is just one of the fascinating ways that best-selling popular math writer Paul Nahin illustrates the deep interplay of math and physics in the world around us in his latest book of challenging mathematical puzzles, Mrs. Perkins's Electric Quilt. With his trademark combination of intriguing mathematical problems and the historical anecdotes surrounding them, Nahin invites readers on an exciting and informative exploration of some of the many ways math and physics combine to create something vastly more powerful, useful, and interesting than either is by itself. In a series of brief and largely self-contained chapters, Nahin discusses a wide range of topics in which math and physics are mutually dependent and mutually illuminating, from Newtonian gravity and Newton's laws of mechanics to ballistics, air drag, and electricity. The mathematical subjects range from algebra, trigonometry, geometry, and calculus to differential equations, Fourier series, and theoretical and Monte Carlo probability. Each chapter includes problems--some three dozen in all--that challenge readers to try their hand at applying what they have learned. Just as in his other books of mathematical puzzles, Nahin discusses the historical background of each problem, gives many examples, includes MATLAB codes, and provides complete and detailed solutions at the end. Mrs. Perkins's Electric Quilt will appeal to students interested in new math and physics applications, teachers looking for unusual examples to use in class--and anyone who enjoys popular math books.

Mathematics for Electrical Technicians John O. Bird 2014-11-10 The definition and solution of engineering problems relies on the ability to represent systems and their behaviour in mathematical terms. Mathematics for Electrical Technicians 4/5 provides a simple and practical guide to the fundamental mathematical skills essential to technicians and engineers. This second edition has been revised and expanded to cover the BTEC Higher - 'Mathematics for Engineers' module for Electrical and Electronic Engineering Higher National Certificates and Diplomas. It will also meet the needs of first and second year undergraduates studying electrical engineering.

She Does Math! Marla Parker 1995-12-31 She Does Math! presents the career histories of 38 professional women and math problems written by them. Each history describes how much math the [Author]; took in high school and college; how she chose her field of study; and how she ended up in her current job. Each of the women present several problems typical of those she had to solve on the job using mathematics. There are many good reasons to buy this book: It contains real-life problems. Any student who asks the question, "Why do I have to learn algebra or trigonometry or geometry?" will find many answers in its pages. Students will welcome seeing solutions from real-world jobs where the math skills they are learning in class are actually used. The book provides strong female role models and supplies practical information about the job market. Students learn that they can only compete for these interesting, well-paying jobs by taking mathematics throughout their high school and college years. The book demonstrates the surprising variety of fields in which mathematics is used. Who should have this book? Your daughter or granddaughter, your sister, your former math teacher, your students--and young men, too. They want to know how the math they study is applied--and this book will show them.