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Structural Steel Design - Jack C. McCormac 1995

the undergraduate course in structural steel design using the Load and Resistance Factor Design Method (LRFD). The text also enables practicing engineers who have been trained to use the Allowable Stress Design procedure (ASD) to change easily to this more economical and realistic method for proportioning steel structures. The book comes with problem-solving software tied to chapter exercises which allows student to specify parameters for particular problems and have the computer assist them. On-screen information about how to use the software and the significance of various problem parameters is featured. The second edition reflects the revised steel specifications (LRFD) of the American Institute of Steel Construction.

Applied Functional Analysis and Variational Methods in Engineering - Junuthula Narasimha Reddy 1991

Surface Water-Quality Modeling - Steven C. Chapra 2008-12-17

National and international interest in finding rational and economical approaches to water-quality management is at an all-time high. Insightful

application of mathematical models, attention to their underlying assumptions, and practical sampling and statistical tools are essential to maximize a successful approach to water-quality modeling. Chapra has organized this user-friendly text in a lecture format to engage students who want to assimilate information in manageable units. Comical examples and literary quotes interspersed throughout the text motivate readers to view the material in the proper context. Coverage includes the necessary issues of surface water modeling, such as reaction kinetics, mixed versus nonmixed systems, and a variety of possible contaminants and indicators; environments commonly encountered in water-quality modeling; model calibration, verification, and sensitivity analysis; and major water-quality-modeling problems. Most formulations and techniques are accompanied by an explanation of their origin and/or theoretical basis. Although the book points toward numerical, computer-oriented applications, strong use is made of analytical solutions. In addition, the text includes extensive worked examples that relate theory to applications and illustrate the mechanics and subtleties of the computations.

Principles of Power System - VK Mehta & Rohit Mehta 2005

The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

Python Programming and Numerical Methods - Qingkai Kong 2020-11-27

Python Programming and Numerical Methods: A Guide for Engineers and Scientists introduces programming tools and numerical methods to engineering and science students, with the goal of helping the students to develop good computational problem-solving techniques through the use of numerical methods and the Python programming language. Part One introduces fundamental programming concepts, using simple examples to put new concepts quickly into practice. Part Two covers the fundamentals of algorithms and numerical analysis at a level that allows students to quickly apply results in practical settings. Includes tips, warnings and "try this" features within each chapter to help the reader develop good programming practice Summaries at the end of each chapter allow for quick access to important information Includes code in Jupyter notebook format that can be directly run online

Numerical Methods for Engineers - Santosh Gupta 2012-09-01

Numerical techniques required for all engineering disciplines explained. Necessary amount of elementary material included. Difficult concepts explained with solved examples. Some equations solved by different techniques for wider exposure. An extensive set of graded problems with hints included.

Numerical Methods for Scientists and Engineers - K. Sankara Rao 2001-01

Numerical Methods for Engineers - Steven Chapra 2009-04-20

Instructors love *Numerical Methods for Engineers* because it makes teaching easy! Students love it because it is written for them--with clear explanations and examples throughout. The text features a broad array of applications that span all engineering disciplines. The sixth edition retains the successful instructional techniques of earlier editions. Chapra and Canale's unique approach opens each part of the text with sections

called Motivation, Mathematical Background, and Orientation. This prepares the student for upcoming problems in a motivating and engaging manner. Each part closes with an Epilogue containing Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Helpful separate Appendices. "Getting Started with MATLAB" and "Getting Started with Mathcad" which make excellent references. Numerous new or revised problems drawn from actual engineering practice, many of which are based on exciting new areas such as bioengineering. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering. Excellent new examples and case studies span all areas of engineering disciplines; the students using this text will be able to apply their new skills to their chosen field. Users will find use of software packages, specifically MATLAB®, Excel® with VBA and Mathcad®. This includes material on developing MATLAB® m-files and VBA macros.

Computational Partial Differential Equations Using MATLAB® - Jichun Li 2019-09-26

In this popular text for an Numerical Analysis course, the authors introduce several major methods of solving various partial differential equations (PDEs) including elliptic, parabolic, and hyperbolic equations. It covers traditional techniques including the classic finite difference method, finite element method, and state-of-the-art numerical methods. The text uniquely emphasizes both theoretical numerical analysis and practical implementation of the algorithms in MATLAB. This new edition includes a new chapter, Finite Value Method, the presentation has been tightened, new exercises and applications are included, and the text refers now to the latest release of MATLAB. Key Selling Points: A successful textbook for an undergraduate text on numerical analysis or methods taught in mathematics and computer engineering. This course is taught in every university throughout the world with an engineering department or school. Competitive advantage

broader numerical methods (including finite difference, finite element, meshless method, and finite volume method), provides the MATLAB source code for most popular PDEs with detailed explanation about the implementation and theoretical analysis. No other existing textbook in the market offers a good combination of theoretical depth and practical source codes.

Numerical Methods for Engineers - Dr. Arti Kaushik 2018-05-20

□ABOUT THE BOOK: I am feeling delighted to present to my readers, students and teachers, this book on Numerical Methods with codes in MATLAB and C++. This book has been primarily written for undergraduate students studying Numerical Analysis courses in universities and engineering colleges. The content in the book covers both basic concepts of numerical methods and more advanced concepts such as Partial Differential Equations. The book has been designed with the primary goal of providing students with a sound introduction of numerical methods and making the learning a pleasurable experience. The content in the book is arranged in a very logical manner with clarity in presentation. The book includes numerous examples which aid the students become more and more proficient in applying the method. A salient feature of the book is computer programs written in C++ and also in MATLAB. I have made conscious efforts to make the book student friendly. □RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practicing Civil Engineers. □ABOUT THE AUTHOR: Dr. Arti Kaushik (Assistant Professor), Department of Mathematics Maharaja Agrasen Institute of Technology, Rohini Sec-22, Delhi) □BOOK DETAILS: ISBN: 978-81-89401-54-2 Pages: 298 Paperback Edition: 1st, Year-2019 Size(cms): L-24 B-16 H-1

Applied Engineering Analysis - Tai-Ran Hsu 2018-04-30

A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbook which demonstrates how to apply mathematics to solve engineering problems. It begins with an overview of engineering analysis and an introduction to mathematical

modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order differential equations. Fourier series and Laplace transform are also covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to design and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features: Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering problems. Examples and problems of a practical nature with illustrations to enhance student's self-learning. Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control (SPC). Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making.

Numerical Analysis - David Kincaid 2009

This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing. The subject of numerical analysis is treated from a mathematical point of view, offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs. In an engaging and informal style, the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs. Algorithms are presented in pseudocode, so that students can immediately write computer programs in standard languages or use interactive mathematical software packages. This book occasionally touches upon more advanced topics that are not usually contained in standard textbooks at this level.

Numerical Methods for Engineers - Steven C. Chapra 2006

The fifth edition of Numerical Methods for Engineers with Software and Programming Applications continues its tradition of excellence. The revision retains the successful pedagogy of the prior editions. Chapra and Canale's unique approach opens each part of the text with sections called Motivation, Mathematical Background, and Orientation, preparing the student for what is to come in a motivating and engaging manner. Each part closes with an Epilogue containing sections called Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Users will find use of software packages, specifically MATLAB and Excel with VBA. This includes material on developing MATLAB m-files and VBA macros. Also, many, many more challenging problems are included. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering

Applied Numerical Methods with MATLAB for Engineers and Scientists - Steven C. Chapra 2005

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.

Applied Numerical Methods Using MATLAB - Won Y. Yang
2005-05-20

In recent years, with the introduction of new media products, there has been a shift in the use of programming languages from FORTRAN or C to MATLAB for implementing numerical methods. This book makes use of the powerful MATLAB software to avoid complex derivations, and to teach the fundamental concepts using the software to solve practical problems. Over the years, many textbooks have been written on the subject of numerical methods. Based on their course experience, the authors use a more practical approach and link every method to real engineering and/or science problems. The main benefit is that engineers don't have to know the mathematical theory in order to apply the numerical methods for solving their real-life problems. An Instructor's Manual presenting detailed solutions to all the problems in the book is available online.

Numerical Methods for Engineers and Scientists - Joe D. Hoffman
2018-10-03

Emphasizing the finite difference approach for solving differential equations, the second edition of Numerical Methods for Engineers and Scientists presents a methodology for systematically constructing individual computer programs. Providing easy access to accurate solutions to complex scientific and engineering problems, each chapter begins with objectives, a discussion of a representative application, and an outline of special features, summing up with a list of tasks students should be able to complete after reading the chapter- perfect for use as a study guide or for review. The AIAA Journal calls the book "...a good, solid instructional text on the basic tools of numerical analysis."

Introduction to Fluid Mechanics, Sixth Edition - William S. Janna
2020-04-20

Introduction to Fluid Mechanics, Sixth Edition, is intended to be used in a first course in Fluid Mechanics, taken by a range of engineering majors. The text begins with dimensions, units, and fluid properties, and continues with derivations of key equations used in the control-volume approach. Step-by-step examples focus on everyday situations, and applications. These include flow with friction through pipes and tubes, flow past various two and three dimensional objects, open channel flow,

compressible flow, turbomachinery and experimental methods. Design projects give readers a sense of what they will encounter in industry. A solutions manual and figure slides are available for instructors.

Excel for Scientists and Engineers - E. Joseph Billo 2007-04-06

Learn to fully harness the power of Microsoft Excel(r) to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's(r) capabilities to execute the calculations needed to solve a variety of chemical, biochemical, physical, engineering, biological, and medicinal problems. The text begins with two chapters that introduce you to Excel's Visual Basic for Applications (VBA) programming language, which allows you to expand Excel's(r) capabilities, although you can still use the text without learning VBA. Following the author's step-by-step instructions, here are just a few of the calculations you learn to perform: * Use worksheet functions to work with matrices * Find roots of equations and solve systems of simultaneous equations * Solve ordinary differential equations and partial differential equations * Perform linear and non-linear regression * Use random numbers and the Monte Carlo method This text is loaded with examples ranging from very basic to highly sophisticated solutions. More than 100 end-of-chapter problems help you test and put your knowledge to practice solving real-world problems. Answers and explanatory notes for most of the problems are provided in an appendix. The CD-ROM that accompanies this text provides several useful features: * All the spreadsheets, charts, and VBA code needed to perform the examples from the text * Solutions to most of the end-of-chapter problems * An add-in workbook with more than twenty custom functions This text does not require any background in programming, so it is suitable for both undergraduate and graduate courses. Moreover, practitioners in science and engineering will find that this guide saves hours of time by enabling them to perform most of their calculations with one familiar spreadsheet package.

Applied Numerical Methods with MATLAB for Engineers and Scientists - Steven C. Chapra 2023

"This book is designed to support a one-semester course in numerical

methods. It has been written for students who want to learn and apply numerical methods in order to solve problems in engineering and science. As such, the methods are motivated by problems rather than by mathematics. That said, sufficient theory is provided so that students come away with insight into the techniques and their shortcomings"--
Chemical Engineering Computation with MATLAB® - Yeong Koo Yeo 2020-12-15

Chemical Engineering Computation with MATLAB®, Second Edition continues to present basic to advanced levels of problem-solving techniques using MATLAB as the computation environment. The Second Edition provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to MATLAB version 2020. It also includes a new chapter on computational intelligence and: Offers exercises and extensive problem-solving instruction and solutions for various problems Features solutions developed using fundamental principles to construct mathematical models and an equation-oriented approach to generate numerical results Delivers a wealth of examples to demonstrate the implementation of various problem-solving approaches and methodologies for problem formulation, problem solving, analysis, and presentation, as well as visualization and documentation of results Includes an appendix offering an introduction to MATLAB for readers unfamiliar with the program, which will allow them to write their own MATLAB programs and follow the examples in the book Provides aid with advanced problems that are often encountered in graduate research and industrial operations, such as nonlinear regression, parameter estimation in differential systems, two-point boundary value problems and partial differential equations and optimization This essential textbook readies engineering students, researchers, and professionals to be proficient in the use of MATLAB to solve sophisticated real-world problems within the interdisciplinary field of chemical engineering. The text features a solutions manual, lecture slides, and MATLAB program files.

Numerical Methods in Engineering with Python 3 - Jaan Kiusalaas 2013-01-21

Provides an introduction to numerical methods for students in engineering. It uses Python 3, an easy-to-use, high-level programming language.

Numerical Methods (As Per Anna University) - Satteluri R. K. Iyengar 2009

About the Book: This comprehensive textbook covers material for one semester course on Numerical Methods (MA 1251) for B.E./ B. Tech. students of Anna University. The emphasis in the book is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner. The book is written as a textbook rather than as a problem/guide book. The textbook offers a logical presentation of both the theory and techniques for problem solving to motivate the students in the study and application of Numerical Methods. Examples and Problems in Exercises are used to explain.

Numerical Methods - Balagurusamy 1999-07

Solving Practical Engineering Mechanics Problems - Sayavur I. Bakhtiyarov 2017-10-16

Engineering mechanics is one of the fundamental branches of science that is important in the education of professional engineers of any major. Most of the basic engineering courses, such as mechanics of materials, fluid and gas mechanics, machine design, mechatronics, acoustics, vibrations, etc. are based on engineering mechanics courses. In order to absorb the materials of engineering mechanics, it is not enough to consume just theoretical laws and theorems—a student also must develop an ability to solve practical problems. Therefore, it is necessary to solve many problems independently. This book is a part of a four-book series designed to supplement the engineering mechanics courses. This series instructs and applies the principles required to solve practical engineering problems in the following branches of mechanics: statics, kinematics, dynamics, and advanced kinetics. Each book contains between 6 and 8 topics on its specific branch and each topic features 30 problems to be assigned as homework, tests, and/or midterm/final exams with the consent of the instructor. A solution of one similar sample

problem from each topic is provided. This first book contains seven topics of statics, the branch of mechanics concerned with the analysis of forces acting on construction systems without an acceleration (a state of the static equilibrium). The book targets the undergraduate students of the sophomore/junior level majoring in science and engineering.

Numerical Methods for Two-Point Boundary-Value Problems - Herbert B. Keller 2018-11-14

Elementary yet rigorous, this concise treatment is directed toward students with a knowledge of advanced calculus, basic numerical analysis, and some background in ordinary differential equations and linear algebra. 1968 edition.

Student Solutions Manual and Study Guide for Numerical Analysis - Richard L. Burden 2004-12-01

The Student Solutions Manual contains worked-out solutions to many of the problems. It also illustrates the calls required for the programs using the algorithms in the text, which is especially useful for those with limited programming experience.

Numerical Methods For Scientific And Engineering Computation - M.K. Jain 2003

Numerical Methods for Engineers - Steven C. Chapra 2016-03

Numerical Methods for Engineers retains the instructional techniques that have made the text so successful. Chapra and Canale's unique approach opens each part of the text with sections called "Motivation" "Mathematical Background" and "Orientation". Each part closes with an "Epilogue" containing "Trade-Offs" "Important Relationships and Formulas" and "Advanced Methods and Additional References". Much more than a summary the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Numerous new or revised problems are drawn from actual engineering practice. The expanded breadth of engineering disciplines covered is especially evident in these exercises which now cover such areas as biotechnology and biomedical engineering. Excellent new examples and case studies span all areas of engineering giving students a broad

exposure to various fields in engineering. McGraw-Hill Education's Connect is also available as an optional add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it how they need it so that class time is more effective. Connect allows the professor to assign homework quizzes and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

An Introduction to Numerical Methods and Analysis - James F. Epperson
2013-06-06

Praise for the First Edition ". . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises." —Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ." —The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ." —Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical

methods and numerical analysis.

Financial Accounting and Reporting - Barry Elliott 2011

Financial Accounting and Reporting is the most up to date text on the market. Now fully updated in its fourteenth edition, it includes extensive coverage of International Accounting Standards (IAS) and International Financial Reporting Standards (IFRS). This market-leading text offers students a clear, well-structured and comprehensive treatment of the subject. Supported by illustrations and exercises, the book provides a strong balance of theoretical and conceptual coverage. Students using this book will gain the knowledge and skills to help them apply current standards, and critically appraise the underlying concepts and financial reporting methods.

Applied Numerical Methods with Python for Engineers and Scientists - Steven C. Chapra 2021-10

"When we first learned to use computers as students in the 1960s, Fortran was the language of choice for most engineering and scientific computations. Over the ensuing half century, numerous other languages have proven useful for implementing the numerical calculations that are so valuable to our research and teaching. Along with a succession of improved Fortran versions, other languages such as Algol, Basic, Pascal, and C/C++ have all found their way into our computational toolbox. The basic content, organization, and pedagogy of this book is like our other numerical methods textbooks. In particular, a conversational writing style is intentionally maintained in order to make the book easier to read. This book tries to speak directly to the reader and is designed in part to be a tool for self-teaching. As such, we also believe it will have value outside the classroom for professionals desiring to gain proficiency in both numerical methods and Python"--

Numerical Methods for Engineers and Scientists - Amos Gilat 2008

Following a unique approach, this innovative book integrates the learning of numerical methods with practicing computer programming and using software tools in applications. It covers the fundamentals while emphasizing the most essential methods throughout the pages. Readers are also given the opportunity to enhance their programming skills using

MATLAB to implement algorithms. They'll discover how to use this tool to solve problems in science and engineering.

Dynamics in Engineering Practice - Dara W. Childs 2015-04-17

Observing that most books on engineering dynamics left students lacking and failing to grasp the general nature of dynamics in engineering practice, the authors of *Dynamics in Engineering Practice*, Eleventh Edition focused their efforts on remedying the problem. This text shows readers how to develop and analyze models to predict motion. While *Numerical Methods with Programs in C* - T Veerarajan 2008-03-07

Designed for the first course on Numerical Methods, this book provides a strong foundation on the subject by giving a wide range of methods that an engineering student encounters in real life. it follows a mathematical and computer-oriented approach facilitating problem solving.

Numerical Methods for Engineers - Steven C. Chapra 2002

The Fourth Edition of *Numerical Methods for Engineers* continues the tradition of excellence it established as the winner of the ASEE Meriam/Wiley award for Best Textbook. Instructors love it because it is a comprehensive text that is easy to teach from. Students love it because it is written for them--with great pedagogy and clear explanations and examples throughout. This edition features an even broader array of applications, including all engineering disciplines. The revision retains the successful pedagogy of the prior editions. Chapra and Canale's unique approach opens each part of the text with sections called Motivation, Mathematical Background, and Orientation, preparing the student for what is to come in a motivating and engaging manner. Each part closes with an Epilogue containing sections called Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. What's new in this edition? A shift in orientation toward more use of software packages, specifically MATLAB and Excel with VBA. This includes material on developing MATLAB m-files and VBA macros. In addition, the text has been updated to reflect improvements in MATLAB and Excel since the last edition. Also, many

more, and more challenging problems are included. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering. Features Ø The new edition retains the clear explanations and elegantly rendered examples that the book is known for. Ø There are approximately 150 new, challenging problems drawn from all engineering disciplines. Ø There are completely new sections on a number of topics including multiple integrals and the modified false position method. Ø The website will provide additional materials, such as programs, for student and faculty use, and will allow users to communicate directly with the authors.

Numerical Methods in Engineering Practice - Amir Wadi Al-Khafaji 1986

A comprehensive and detailed treatment of classical and contemporary numerical methods for undergraduate students of engineering. The text emphasizes how to apply the methods to solve practical engineering problems covering over 300 projects drawn from civil, mechanical and electrical engineering.

Schaum's Outline of Thermodynamics for Engineers, 2ed - Merle Potter 2010-05-23

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

A Student's Guide to Numerical Methods - Ian H. Hutchinson 2015-04-30

The plain language style, worked examples and exercises in this book help students to understand the foundations of computational physics and engineering.

Numerical Computing with MATLAB - Cleve B. Moler 2010-08-12
A revised textbook for introductory courses in numerical methods, MATLAB and technical computing, which emphasises the use of mathematical software.