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Scientific Computing with MATLAB

McGraw-Hill Science/Engineering/Math

The essential guide to MATLAB as a problem solving tool This text presents MATLAB both as a mathematical tool and a programming language, giving a concise and easy to master introduction to its potential and power. The fundamentals of MATLAB are illustrated throughout with many examples from a wide range of familiar scientific and engineering areas, as well as from everyday life. The new edition has been updated to include coverage of Symbolic Math and SIMULINK.

It also adds new examples and applications, and uses the most recent release of Matlab. New chapters on Symbolic Math and SIMULINK provide complete coverage of all the functions available in the student edition of Matlab New: more exercises and examples, including new examples of beam bending, flow over an airfoil, and other physics-based problems New: A bibliography provides sources for the engineering problems and examples discussed in the text A chapter on algorithm development and program design Common errors and pitfalls highlighted

Mastering MATLAB Walter de Gruyter GmbH & Co KG

The fifth edition of Essential MATLAB for

Engineers and Scientists provides a concise, balanced overview of MATLAB's functionality that facilitates independent learning, with coverage of both the fundamentals and applications. The essentials of MATLAB are illustrated throughout, featuring complete coverage of the software's windows and menus. Program design and algorithm development are presented clearly and intuitively, along with many examples from a wide range of familiar scientific and engineering areas. This is an ideal book for a first course on MATLAB or for an engineering problem-solving course using MATLAB, as well as a self-learning tutorial for professionals and students expected to learn and apply MATLAB. Updated with the

features of MATLAB R2012b Expanded discussion of writing functions and scripts Revised and expanded Part II: Applications Expanded section on GUIs More exercises and examples throughout *Applied Numerical Methods Using MATLAB* Pearson Higher Ed This new edition provides an updated approach for students, engineers, and researchers to apply numerical methods for solving problems using MATLAB® This accessible book makes use of MATLAB® software to teach the fundamental concepts for applying numerical methods to solve practical engineering and/or science problems. It presents programs in a complete form so that readers can run them instantly with no programming skill, allowing them to focus on understanding the mathematical manipulation process and making interpretations of the results. *Applied Numerical Methods Using MATLAB®, Second Edition* begins with an introduction to MATLAB usage and computational errors, covering everything from input/output of data, to various kinds of computing errors, and on to parameter sharing and passing, and more. The system of linear equations is covered next,

followed by a chapter on the interpolation by Lagrange polynomial. The next sections look at interpolation and curve fitting, nonlinear equations, numerical differentiation/integration, ordinary differential equations, and optimization. Numerous methods such as the Simpson, Euler, Heun, Runge-kutta, Golden Search, Nelder-Mead, and more are all covered in those chapters. The eighth chapter provides readers with matrices and Eigenvalues and Eigenvectors. The book finishes with a complete overview of differential equations. Provides examples and problems of solving electronic circuits and neural networks Includes new sections on adaptive filters, recursive least-squares estimation, Bairstow's method for a polynomial equation, and more Explains Mixed Integer Linear Programing (MILP) and DOA (Direction of Arrival) estimation with eigenvectors Aimed at students who do not like and/or do not have time to derive and prove mathematical results *Applied Numerical Methods Using MATLAB®, Second Edition* is an excellent text for students who wish to develop their problem-solving capability without being involved in details about the MATLAB

codes. It will also be useful to those who want to delve deeper into understanding underlying algorithms and equations.

Scientific Computing with MATLAB

Cambridge University Press

Plot graphs, solve equations, and write code in a flash! If you work in a STEM field, chances are you'll be using MATLAB on a daily basis. MATLAB is a popular and powerful computational tool and this book provides everything you need to start manipulating and plotting your data.

MATLAB has rapidly become the premier data tool, and *MATLAB For Dummies* is a comprehensive guide to the fundamentals. *MATLAB For Dummies* guides you through this complex computational language from installation to visualization to automation.

Learn MATLAB's language fundamentals including syntax, operators, and data types Understand how to use the most important window in MATLAB - the Command Window Get the basics of linear algebra to get up and running with vectors, matrices, and hyperspace Automate your work with programming scripts and functions Plot graphs in 2D and 3D to visualize your data Includes a handy guide for MATLAB's functions and plotting

routines MATLAB is an essential part of the analysis arsenal and MATLAB For Dummies provides clear, thorough guidance to get the most out of your data.

Telecommunications Demystified

Elsevier

With the spread of the powerhouse MATLAB software into nearly every area of math, science, and engineering, it is important to have a strong introduction to using the software. Updated for version 7.0, MATLAB Primer, Seventh Edition offers such an introduction as well as a "pocketbook" reference for everyday users of the software. It offers an introduction to *MATLAB for Beginners* John Wiley & Sons This introduction to Scientific Computing illustrates several numerical methods for the computer solution of certain classes of mathematical problems. The authors show how to compute the zeros or the integrals of continuous functions, solve linear systems, approximate functions by polynomials and construct accurate approximations for the solution of differential equations. To make the presentation concrete, the programming environment Matlab is adopted as a faithful companion.

MATLAB Demystified Vikas Publishing House

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.

Matlab: An Introduction With Applications New Age International This textbook is an introduction to Scientific Computing, in which several numerical methods for the computer

solution of certain classes of mathematical problems are illustrated. The authors show how to compute the zeros or the integrals of continuous functions, solve linear systems, approximate functions by polynomials and construct accurate approximations for the solution of differential equations. To make the presentation concrete and appealing, the programming environment Matlab is adopted as a faithful companion. All the algorithms introduced throughout the book are shown, thus furnishing an immediate quantitative assessment of their theoretical properties such as stability, accuracy and complexity. The book also contains the solution to several problems raised through exercises and examples, often originating from specific applications. A specific section is devoted to subjects which were not addressed in the book and indicates the bibliographical references for a more comprehensive treatment of the material.

Matlab: Demystified Basic Concepts and Applications Academic Press This textbook introduces powerful

computational software tool called MATLAB. The main objective of this book is to expose the readers to MATLAB features that integrate computation, visualization and programming in an easy-to-use environment. This book covers built-in functions of MATLAB, commands and their applications in topics of mathematical physics and engineering mathematics. The book is written in a very simple language and chapters are arranged sequentially. Each topic covered in this book, has its corresponding theoretical explanation prior to its MATLAB execution. The authors explain concepts with the help of screenshots of the MATLAB software and programming codes with their outputs. This approach not only creates a direct link between the book and the MATLAB software but also imbibes the feeling of actual interaction with MATLAB software. A sufficient number of examples based on MATLAB programming codes have been worked out so that students can grasp the concepts, the ideas, and the results in an easy way. At the end of each chapter, students will have a chance to answer several application-based questions in exercise. All these features make this book

to be used as a textbook for theoretical learning as well as for laboratory course. The book is suitable for the undergraduate and postgraduate students of mathematics, physics, instrumentation and electronics. The undergraduate students of engineering will also find this book useful.

Statistics in MATLAB CRC Press

Market_Desc: · Undergraduate and graduate level students of Engineering· Engineers and Researchers using numerical methods Special Features: · A very practical title for students, engineers and researchers who apply numerical methods for solving problems using MATLAB· Includes exercises, problems and solutions with demonstrations through the MATLAB program· Solution Manual available for instructors About The Book: The objective of this book is to make use of the powerful MATLAB software to avoid complex derivations and to teach the fundamental concepts using the software to solve practical problems. The authors use a more practical approach and link every method to real engineering and/or science problems. The main idea is that engineers don't have to know the

mathematical theory in order to apply the numerical methods for solving their real-life problems.

[A Guide to Matlab](#) John Wiley & Sons

"MATLAB is a high-level language and interactive environment for numerical computation, visualization, and programming. Using MATLAB, you can analyze data, develop algorithms, and create models and applications. The language, tools, and built-in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages"--

[Scientific Computing with MATLAB and Octave](#) CRC Press

Telecommunications Demystified provides details of developments in telecommunications, and their underlying theory, are thoroughly examined in this sweeping tutorial. The book first builds a strong mathematical foundation, introduces the basic concepts of analogue and digital telecommunications, and then develops more complex topics such as source and channel coding, baseband and carrier modulation, estimation and synchronization, multiple access schemes,

and trellis-coded modulation. Includes several MATLAB® tutorials that permit readers to model various telecommunications systems. Balances a solid theoretical treatment of subjects with practical applications and examples. Covers both digital and analogue telecommunications systems, including digital modulation techniques. The accompanying material includes MATLAB® tutorials that permit readers to model various telecommunications systems and an electronic version of the book MATLAB Primer Pearson South Africa. Steven Chapra's Applied Numerical Methods with MATLAB, third edition, is written for engineering and science students who need to learn numerical problem solving. Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB. The book is designed for a one-semester or one-quarter course in numerical methods typically taken by undergraduates. The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m-files and instructor materials.

Essential Matlab for Engineers and Scientists McGraw Hill

Over the years, MATLAB has evolved into a powerful tool that provides assistance to professionals, scientists and engineers in diversifying their areas of expertise. Teachers and students alike have accepted the fact that very few choices exist to replace MATLAB as a tool that helps enhance the ability to understand and visualize. The effort here is to help the fledgling learner know the basic ideas and principles behind programming in MATLAB and the application of the vast storehouse of tools available in the library and supporting documentation.

Numerical Methods for Engineers and Scientists Using MATLAB® Cambridge University Press

This book presents fundamentals in MATLAB programming, including data and statement structures, control structures, function writing and debugging in MATLAB programming, followed by the presentations of algebraic computation, transcendental function evaluations and data processing. Advanced topics such as MATLAB interfacing, object-oriented programming and graphical user interface

design are also addressed.

NUMERICAL METHODS KIT PHI Learning Pvt. Ltd.

Fulfilling the need for a practical user's guide, Statistics in MATLAB: A Primer provides an accessible introduction to the latest version of MATLAB and its extensive functionality for statistics. Assuming a basic knowledge of statistics and probability as well as a fundamental understanding of linear algebra concepts, this book: Covers capabilities

EBOOK: Applied Numerical Methods with MatLab John Wiley & Sons

This textbook is for engineering students and practising engineers who wish to explore the power and efficiency of MATLAB.

Numerical Methods in Engineering with MATLAB® Springer Science & Business Media

'Mastering MATLAB 8' covers the essential aspects of MATLAB in an easy-to-follow 'learn while doing' tutorial format. It is appropriate for undergraduate and graduate courses in MATLAB, as a reference in courses where MATLAB is used, or as a self-study reference.

Numerical Methods in Engineering with

MATLAB® Cambridge University Press
"This completely revised new edition is based on the latest version of MATLAB. New chapters cover handle graphics, graphical user interfaces (GUIs), structures and cell arrays, and importing/exporting data. The chapter on numerical methods now includes a general GUI-driver ODE solver."--Jacket.

MATLAB For Dummies CRC Press
The book has been designed for Science, Engineering, Mathematics and Statistics undergraduate students. A look at the contents of the book will give the reader a clear idea of the variety of numerical methods discussed and analysed. The book has been written in a concise and

lucid style with proper explanation of Mathematics involved in each method. Each method is explained with solved examples, computer programs and their results as a screenshot of the graphic window and console window. The careful organisation of figures, solved examples, codes, graphic window and console window help the students grasp quickly.