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We use the following methods: 4th-order Runge-Kutta method: ex7_RK4thOrder_Numpy.py. 5th-order Runge-Kutta method: ex9_RK5thOrder_Np_v2.py. Runge-Kutta-Fehlberg method: ex7_RKF45_Numpy.py. Heun's method: ex8_Heun_Numpy.py. Four-step Adams-Bashforth-Moulton method: ex8_ABM_4thOrder.py

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conversational and approachable style
Contains over 60 algorithms implemented as MATLAB® functions, and over 100 MATLAB® scripts applying numerical algorithms to specific examples

Numerical Methods: Using MATLAB, Fourth Edition, provides a clear, rigorous introduction to a wide range of numerical methods and their practical applications. The authors integrate MATLAB with numerical analyses to help readers develop familiarity with the tool. MATLAB graphics are used extensively to clarify complex problems and give deeper understanding, and hundreds of useful and important numerical algorithms are included. Worked examples, exercises and solutions help illustrate how methods can be used to study problems that have applications in the biosciences, chaos, optimization, engineering, and in science across the board. Features over 500 numerical algorithms and their fundamental principles and applications Includes new chapters on Neural Computing and Wavelet Analysis Contains new problems and worked examples throughout Provides a user-friendly resource that is written in a conversational style

Balancing theory with practice, this is an introductory text for undergraduates in mathematics, science and engineering. Illustrated throughout with graphs and tables, the fourth edition contains many new

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features, and each numerical method is presented in a self-contained format.

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.

Previous editions of this popular textbook offered an accessible and practical introduction to numerical analysis. An Introduction to Numerical Methods: A MATLAB® Approach, Fourth Edition continues to present a wide range of useful and important algorithms for scientific and engineering applications. The authors use MATLAB to illustrate each numerical method, providing full details of the computed results so that the main steps are easily visualized and

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interpreted. This edition also includes a new chapter on Dynamical Systems and Chaos. Features Covers the most common numerical methods encountered in science and engineering Illustrates the methods using MATLAB Presents numerous examples and exercises, with selected answers at the back of the book

Numerical Methods with MATLAB provides a highly-practical reference work to assist anyone working with numerical methods. A wide range of techniques are introduced, their merits discussed and fully working MATLAB code samples supplied to demonstrate how they can be coded and applied. Numerical methods have wide applicability across many scientific, mathematical, and engineering disciplines and are most often employed in situations where working out an exact answer to the problem by another method is impractical. Numerical Methods with MATLAB presents each topic in a concise and readable format to help you learn fast and effectively. It is not intended to be a reference work to the conceptual theory that underpins the numerical methods themselves. A wide range of reference works are readily available to supply this information. If, however, you want assistance in applying numerical methods then this is the book for you.

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MATLAB is designed to be used in any introductory level numerical methods course. It provides excellent coverage of numerical methods while simultaneously demonstrating the general applicability of MATLAB to problem solving. This textbook also provides a reliable source of reference material to practicing engineers, scientists, and students in other junior and senior-level courses where MATLAB can be effectively utilized as a software tool in problem solving. The principal goal of this book is to furnish the background needed to generate numerical solutions to a variety of problems. Specific applications involving root-finding, interpolation, curve-fitting, matrices, derivatives, integrals and differential equations are discussed and the broad applicability of MATLAB demonstrated. This book employs MATLAB as the software and programming environment and provides the user with powerful tools in the solution of numerical problems. Although this book is not meant to be an exhaustive treatise on MATLAB, MATLAB solutions to problems are systematically developed and included throughout the book. MATLAB files and scripts are generated, and examples showing the applicability and use of MATLAB are presented throughout the book. Wherever appropriate, the use of MATLAB functions offering shortcuts and alternatives to otherwise long and tedious numerical solutions is also demonstrated. At the end of every chapter a

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set of problems is included covering the material presented. A solutions manual to these exercises is available to instructors.

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.

An elementary first course for students in mathematics and engineering Practical in approach: examples of code are provided for students to debug, and tasks - with full solutions - are provided at the end of each chapter Includes a glossary of useful terms, with each term supported by an example of the syntaxes commonly encountered

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