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**An Introduction to Numerical Methods and Python Programming-Abdul Salam 2013-12-15**

Previous editions of this book 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 scientists and engineers. The authors utilize MATLAB® to illustrate each numerical method, providing full details of the computed results so that the main steps are easily visualized and interpreted. This edition includes a new chapter on differential equations. Coverage of the numerical methods encountered in science and engineering illustrates the methods using MATLAB. The MATLAB code allows the student to see the results of the computations first-hand.

**Numerical Methods using MATLAB-Abhishek Gupta 2015-01-05**

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**Introduction to Numerical Methods and MATLAB for Engineers and Scientists-William Bober 2013-11-12**

Introduction to Numerical Methods and MATLAB for Engineers and Scientists is an efficient and effective text for a one-semester or one-course quarter course in numerical methods typically taken by undergraduates. The book provides a clear and rigorous introduction to a wide range of numerical methods that have practical applications. The book introduces each method in a logical context, develops it with a specific example, and follows it with a comprehensive and detailed MATLAB implementation. The authors provide an extensive set of m-files and instructor materials. Students are encouraged to write a computer program in MATLAB that produces tables, graphs, or both. Many sample MATLAB® programs (scripts) in the text provide guidance on completing these projects.
Numerical and Analytical Methods with MATLAB for Electrical Engineers: William Rose 2016-04-19 Combining academic and practical approaches to this important topic, Numerical and Analytical Methods with MATLAB for Electrical Engineers is the ideal resource for electrical and computer engineering students. Based on the authors’ many years of teaching and research in the field, this text covers numerical methods applied to engineering problems. The book expands on the authors’ previous work and presents new concepts presented in that book and replaces the original projects with new ones intended specifically for electrical and computer engineering students. An introduction to the MATLAB programming environment Mathematical techniques for matrix algebra, root finding, integration, and differential equations More advanced topics, including transform methods, signal processing, curve fitting, and optimization An introduction to the MATLAB graphical user interface Exploring the numerical methods that electrical engineers use for design analysis and testing, this book comprises standalone chapters outlining a course that also introduces standalone sections of computational methods. This approach ensures that readers can use the book as a stand-alone text, helping students develop a full programming curriculum for electronic and electrical engineers. The authors include many problems and exercises to help students master the difficult transition from the receptive to the productive phase of their education. The authors’ previous work, Numerical Methods for Engineers, contains appendixes that provide program listings for the four computer languages: Fortran, C, MATLAB, and Python. This new edition includes a set of “hands on” exercises to show further aspects, make the course contents more motivating, and connect with the mechanics lectures taking place at the same time. One part of the book has more or less evolved from the last version presented. True to the authors’ goal, this book is sent out with a variety of separate topics of varying degrees of difficulty: nevertheless, all these topics are oriented to mechanics.

Numerical Methods in Engineering with Matlab: Eckart W. Kollner 2008-09-26 Mathematics is undoubtedly the key of state-of-the-art high technology. It is an international language that everybody must be familiar with to those who have learned its ways. Long an indispensable part of research thanks to modeling and simulation, mathematics is enjoying particular vitality more than ever. Nevertheless, this stormy development is resulting in increasingly high requirements for students in technical disciplines, while general interest in mathematics is showing a continuous wane at the same time. This book becomes all the more attractive now, helping students master the difficult transition from the receptive to the productive phase of their education. The authors’ previous work, Numerical Methods for Engineers, contains appendixes that provide program listings for the four computer languages: Fortran, C, MATLAB, and Python. This new edition includes a set of “hands on” exercises to show further aspects, make the course contents more motivating, and connect with the mechanics lectures taking place at the same time. One part of the book has more or less evolved from the last version presented. True to the authors’ goal, this book is sent out with a variety of separate topics of varying degrees of difficulty: nevertheless, all these topics are oriented to mechanics.

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One type of example demonstrates a principle or numerical method in the simplest possible terms. Another type of example demonstrates how a particular method can be used to solve a more complex practical problem. The material in each chapter is organized as a progression from the simple to the complex. Contains an extensive reference to using MATLAB. This includes interactive (command line) use of MATLAB, MATLAB programming, plotting, file input and output. MARKET: For a practical and rigorous introduction to the fundamentals of numerical computation.