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Navid Mostoufi, Alkis Constantinides



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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.

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All the MATLAB language scripts developed are listed in the text and included in the book's companion website
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Design and Optimization of Thermal Systems, Third Edition Yogesh Jaluria, 2019-09-06
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Applied Numerical Methods with MATLAB for Engineers and Scientists Steven C. Chapra, 2008
Still brief but with the chapters that you wanted, Steven Chapra's new second edition is written for engineering and science students who need to learn numerical problem solving. This text focuses on problem solving applications rather than theory, using MATLAB throughout. Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB. The new second edition features new chapters on Numerical Differentiation, Optimization and Boundary Value Problems, ODEs.

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The book is designed to cover all major aspects of applied numerical methods including numerical computations, solution of algebraic and transcendental equations, finite differences and interpolation, curve fitting, correlation and regression, numerical differentiation and integration, matrices and linear system of equations, numerical solution of ordinary differential equations and numerical solution of partial differential equations. MATLAB is incorporated throughout the text and most of the problems are executed in MATLAB code. It uses a numerical problem solving orientation with numerous examples, figures and end of chapter exercises. Presentations are limited to very basic topics to serve as an introduction to more advanced topics. Features: Integrates MATLAB throughout the text. Includes over 600 fully solved problems with step by step solutions. Limits presentations to basic concepts of solving numerical methods.

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