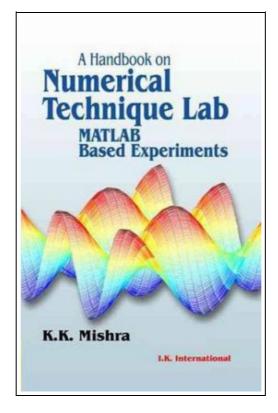
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A HANDBOOK ON NUMERICAL TECHNIQUE LAB MATLAB BASED EXPERIMENTS



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I.K. International Publishing House Pvt. Ltd, 2007. Softcover. Book Condition: New. 14 x 21 cm. This book is primarily written for third semester electrical engineering and electronics engineering students under UPTU. It covers all the experiments prescribed by UPTU for Numerical Technique Lab (JEE 351). Besides the syllabus, a lot of other important experiments such as frequency response, 2D and 3D plots, statistics have also been covered. This book will be very useful for the students to understand the software MATLAB and its applications in solving mathematical problems. This book has two sections. Section A gives a brief concept about the software MATLAB, and section B covers many experiments (examples) besides the syllabus. At the end of the book, a quiz has also been included. The software MATLAB has wide applications in education as well as in industry. Students of other branches of engineering, and professionals will also find this book very useful. Contents: Section ?A?: Introduction / Basics / Accessories / Section ?B?: A Basic Mathematics: 1: Study of Basic Matrix Operation / 2: Solution of Linear Equations / 3: Determination of Eigenvalues and Eigenvectors of a Square Matrix / 4: Solution of Linear Equations for Underdetermined and Overdetermined Cases / 5: Determination of Roots of a Polynomial / 6: Plotting of 2D and 3D Curves / 7: Determination of a Polynomial using Method of Least Square Curve Fitting / 8: Determination of Polynomial Fit, Analyzing Residuals, Exponential Fit and Error Bounds from Given Data / B. Calculus: 9: Differentiation and Integration of a Given Function / 10: Solution of Ordinary Differential Equation (ODE) / C. Application: 11: Solution of Differential Equation by Euler Method / 12: Solution of Differential Equation using Fourth Order Runge-Kutta Method / 13: Determination of Time Response of R-L-C Circuit / D. Additional: 14:...



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