Advanced Engineering Mathematics: Mathematical Methods

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Wiley India Pvt. Ltd, 2014. Softcover. Book Condition: New. Engineering Mathematics is an essential tool for describing and analyzing engineering processes and systems. Mathematics also enables precise representation and communication of knowledge. Mathematical Methods fulfills the need for a book that not only effectively explains the concepts but also aids in visualizing the underlying geometric interpretation. Every chapter has easy to follow explanations of the theory and numerous step-by-step solved problems and examples. The questions have been hand-picked from the previous years? question papers and are suitable to the current pattern of questions asked. Extreme care has been taken to provide careful and correct mathematics, outstanding exercises and helpful worked examples. Chapter 1 Interpolation and Curve Fitting 1.1 Introduction 1.2 Finite Differences 1.3 Interpolation 1.4 Error in Polynomial Interpolation 1.5 Lagrange?s Interpolation Formula for Unequal Intervals 1.6 Spline Interpolation 1.7 Curve Fitting Chapter 2 Numerical Techniques 2.1 Introduction 2.2 Graphical Method 2.3 Bisection Method 2.4 Method of False Position Method (Regula-Falsi Method) 2.5 Iteration Method 2.6 Newton-Raphson Method 2.7 Matrix Decomposition Methods (LU Decomposition Method) 2.8 Gauss-Seidel and Jacobi Iteration Method 2.9 Numerical Differentiation 2.10 Numerical Integration 2.11 Solution of Ordinary Differential Equations by Taylor?s Series Method 2.12 Picard?s Method...

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