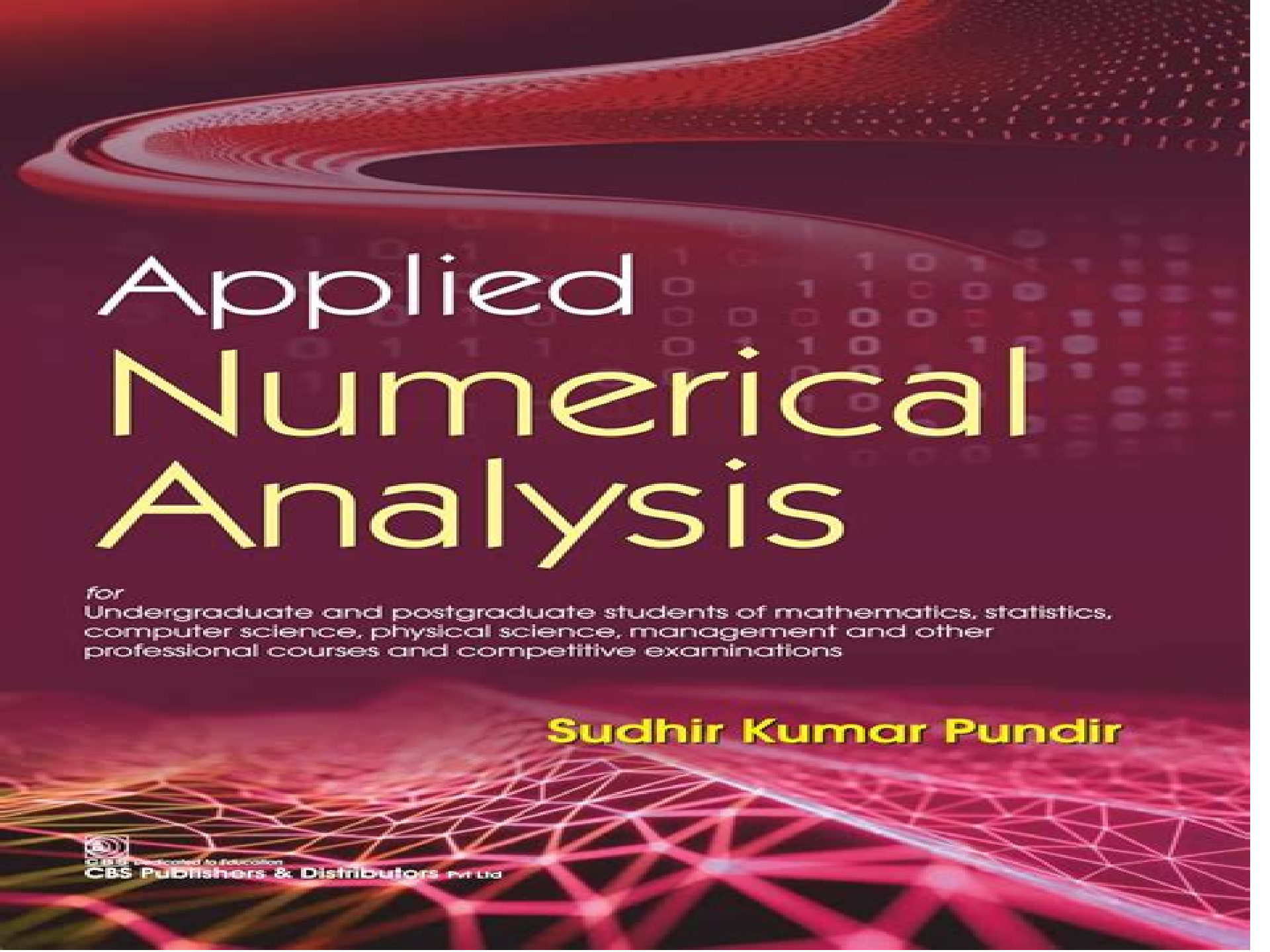




Applied Numerical Analysis

for
Undergraduate and postgraduate students of mathematics, statistics,
computer science, physical science, management and other
professional courses and competitive examinations

Sudhir Kumar Pundir



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Shasha Hu



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INTRODUCTORY METHODS OF NUMERICAL ANALYSIS, FIFTH EDITION SASTRY, S. S., 2012-06-12 This thoroughly revised and updated text now in its fifth edition continues to provide a rigorous introduction to the fundamentals of numerical methods required in scientific and technological applications emphasizing on teaching students numerical methods and in helping them to develop problem solving skills While the essential features of the previous editions such as References to MATLAB IMSL Numerical Recipes program libraries for implementing the numerical methods are retained a chapter on Spline Functions has been added in this edition because of their increasing importance in applications This text is designed for undergraduate students of all branches of engineering NEW TO THIS EDITION Includes additional modified illustrative examples and problems in every chapter Provides answers to all chapter end exercises Illustrates algorithms computational steps or flow charts for many numerical methods Contains four model question papers at the end of the text

Mechanical Vibration Haym Benaroya, 2004-10-13 An effective text must be well balanced and thorough in its approach to a topic as expansive as vibration and Mechanical Vibration is just such a textbook Written for both senior undergraduate and graduate course levels this updated and expanded second edition integrates uncertainty and control into the discussion of vibration outlining basic concepts before delving into the mathematical rigors of modeling and analysis Mechanical Vibration Analysis Uncertainties and Control Second Edition provides example problems end of chapter exercises and an up to date set of mini projects to enhance students computational abilities and includes abundant references for further study or more in depth information The author provides a MATLAB primer on an accompanying CD ROM which contains original programs that can be used to solve complex problems and test solutions The book is self contained covering both basic and more advanced topics such as stochastic processes and variational approaches It concludes with a completely new chapter on nonlinear vibration and stability Professors will find that the logical sequence of material is ideal for tailoring individualized syllabi and students will benefit from the abundance of problems and MATLAB programs provided in the text and on the accompanying CD ROM respectively A solutions manual is also available with qualifying course adoptions

An Introduction to Applied Numerical Analysis Benjamin F. Plybon, 1992

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