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this thoroughly revised edition of the book completely covers the syllabi in the calculus of finite differences of various indian universities examples given at the end of each chapter have been specially constructed taken from university papers and standard book

the present treatise is intended to cover the syllabi of different indian universities in statistics hons and mathematics hons courses even the students of engineering may also be befitted by the book

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this book considers some of the most fundamental ideas of mathematical and in particular numerical computing these in turn form the basis of most of the techniques of scientific computing which are widely used in almost every branch of scientific work and in business and economic applications

this book provides a thorough and careful introduction to the theory and practice of scientific computing at an elementary yet rigorous level from theory via examples and algorithms to computer programs the original fortran programs have been rewritten in matlab and now appear in a new appendix and online offering a modernized version of this classic reference for basic numerical algorithms

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this new book updates the exceptionally popular numerical analysis of ordinary differential equations this book is an indispensable reference for any researcher american mathematical society on the first edition features new exercises included in each chapter author is widely regarded as the world expert on runge kutta methods didactic aspects of the book have been enhanced by interspersing the text with exercises updated bibliography

this book is written with two sets of readers in mind the practicing scientific worker and the pure mathematician the practicing scientific worker the chemist the physicist the engineer the economist anyone who is concerned with the quantitative aspects of the physical biological social and applied sciences knows only too well that much of his effort is directly or indirectly devoted to the determination of numerical results and to the derivation of natural laws which are nothing but relations between numbers endowed with dimensions this book aims to tell him how to obtain a numerical result and how to judge the reliability or trustworthiness of his answer the scientific worker will find many of the necessary formulas and many special tables to help him in his computations he will find detailed descriptions of the methods and procedures he will be aided by many illustrative examples worked out in the text he will be guided by many remarks observations and words of caution the pure mathematician is usually interested if at all concerned with the art rather than the practice of computation this book attempts to give him a coherent systematic and i trust lucid treatment of the classical or traditional theory of mathematical computation he will find careful and honest proofs where proofs are given and he will learn that there is frequently an amazing amount of real mathematics behind a prosaic numerical answer correct to five decimal places

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