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*Numerical Analysis  
Burden And Faires  
9th Edition*

**In this book I have attempted  
to trace the development of**

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**numerical analysis during the period in which the foundations of the modern theory were being laid. To do this I have had to exercise a certain amount of selectivity in choosing and in rejecting both**

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**authors and papers. I have  
rather arbitrarily chosen, in  
the main, the most famous  
mathematicians of the period  
in question and have  
concentrated on their major  
works in numerical analysis at**

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**the expense, perhaps, of other lesser known but capable analysts. This selectivity results from the need to choose from a large body of literature, and from my feeling that almost by definition the**

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**great masters of mathematics were the ones responsible for the most significant accomplishments. In any event I must accept full responsibility for the choices. I would particularly like to**

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**acknowledge my thanks to  
Professor Otto Neugebauer for  
his help and inspiration in the  
preparation of this book. This  
consisted of many friendly  
discussions that I will always  
value. I should also like to**

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**express my deep appreciation  
to the International Business  
Machines Corporation of which  
I have the honor of being a  
Fellow and in particular to Dr.  
Ralph E. Gomory, its Vice-  
President for Research, for**

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**permitting me to undertake  
the writing of this book and for  
helping make it possible by his  
continuing encouragement and  
support.**

**The Student Solutions Manual  
contains worked-out solutions**



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**to many of the problems. It also illustrates the calls required for the programs using the algorithms in the text, which is especially useful for those with limited programming experience.**

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**This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an**

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**accessible treatment that only  
requires a calculus  
prerequisite, Burden and  
Faires explain how, why, and  
when approximation  
techniques can be expected to  
work, and why, in some**

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**situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing,**

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science disciplines. The first  
book of its kind built from the  
ground up to serve a diverse  
undergraduate audience, three  
decades later Burden and  
Faires remains the definitive**

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**introduction to a vital and  
practical subject. Important  
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**Mathematics of Scientific  
Computing  
Design, Analysis, and  
Computer Implementation of  
Algorithms  
Instructor's Manual for  
Numerical Analysis**

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Most functions that occur in mathematics cannot be used directly in computer calculations. Instead they are approximated by



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manageable functions  
such as polynomials and  
piecewise polynomials.  
The general theory of  
the subject and its  
application to  
polynomial approximation

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are classical, but piecewise polynomials have become far more useful during the last twenty years. Thus many important theoretical properties have been

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found recently and many new techniques for the automatic calculation of approximations to prescribed accuracy have been developed. This book gives a thorough

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and coherent  
introduction to the  
theory that is the basis  
of current approximation  
methods. Professor  
Powell describes and  
analyses the main

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techniques of  
calculation supplying  
sufficient motivation  
throughout the book to  
make it accessible to  
scientists and engineers  
who require

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approximation methods  
for practical needs.

Because the book is  
based on a course of  
lectures to third-year  
undergraduates in  
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University, sufficient attention is given to theory to make it highly suitable as a mathematical textbook at undergraduate or postgraduate level.

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addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for

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the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text

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includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to

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The first notebook (ANAO) aims to introduce the reader to the Mathematica



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system, illustrating the concepts and commands that will be required in the basic understanding of the notebooks to follow. The second notebook (ANA1) intends to discuss the questions of precision and accuracy in scientific computation, and how the system deals with fixed and variable precision

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arithmetic. The next eight notebooks (ANA2 through ANA9) deal with the most common computational tasks in numerical analysis, starting with polynomial interpolation and up to the solution of boundary value problems. The next two notebooks (ANA10 and ANA11) include research work by the authors on

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the use of the Integral Transform Method in the solution of differential eigenvalue problems and nonlinear partial differential equations, respectively. This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing. The

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subject of numerical analysis is treated from a mathematical point of view, offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs. In an engaging and informal style, the authors demonstrate that many computational procedures and intriguing questions of

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computer science arise from theorems and proofs. Algorithms are presented in pseudocode, so that students can immediately write computer programs in standard languages or use interactive mathematical software packages. This book occasionally touches upon more advanced topics that are not usually

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contained in standard textbooks at this level.

Numerical Analysis

Numerical Methods, 4th

Chebyshev Series Solution of Nonlinear  
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Least-squares Approximation

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are presented through computer examples with the latest version of MATLAB. The book addresses a variety of questions ranging from the approximation of functions and integrals to the approximate solution of algebraic, transcendental, differential and integral equations, with particular

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emphasis on the stability, accuracy, efficiency and reliability of numerical algorithms. The CD-ROM which accompanies the book includes source code, a numerical toolbox, executables, and simulations.

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edition, the text was enlarged by  
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sections on B-splines and their

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computation were added to the chapter on spline functions: Due to their special properties, their flexibility, and the availability of well-tested programs for their computation, B-splines play an important role in many applications. Also, the authors



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followed suggestions by many readers to supplement the chapter on elimination methods with a section dealing with the solution of large sparse systems of linear equations. Even though such systems are usually solved by iterative methods, the realm of

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elimination methods has been widely extended due to powerful techniques for handling sparse matrices. We will explain some of these techniques in connection with the Cholesky algorithm for solving positive definite linear systems. The chapter on

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eigenvalue problems was enlarged by a section on the Lanczos algorithm; the sections on the LR and QR algorithm were rewritten and now contain a description of implicit shift techniques. In order to some extent take into account the

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progress in the area of ordinary differential equations, a new section on implicit differential equations and differential-algebraic systems was added, and the section on stiff differential equations was updated by describing further

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Analysis, 10th  
Computational science is  
fundamentally changing  
how technological



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questions are addressed. The design of aircraft, automobiles, and even racing sailboats is now done by computational simulation. The mathematical foundation

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of this new approach is  
numerical analysis,  
which studies algorithms  
for computing  
expressions defined with  
real numbers.

Emphasizing the theory

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behind the computation,  
this book provides a  
rigorous and self-  
contained introduction  
to numerical analysis  
and presents the  
advanced mathematics

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that underpin industrial software, including complete details that are missing from most textbooks. Using an inquiry-based learning approach, Numerical

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*point number representations,  
particularly those pertaining to  
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NUMERICAL METHODS, Fourth  
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intelligent application of  
approximation techniques to the  
type of problems that commonly*

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***occur in engineering and the physical sciences. Students learn why the numerical methods work, what kinds of errors to expect, and when an application might lead to difficulties. The authors also provide information about the availability of high-quality***

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***software for numerical approximation routines. The techniques are the same as those covered in the authors' top-selling Numerical Analysis text, but this text provides an overview for students who need to know the methods without having to***



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***perform the analysis. This concise approach still includes mathematical justifications, but only when they are necessary to understand the methods. The emphasis is placed on describing each technique from an implementation standpoint, and***

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*that the approximation techniques will work and why, in some situations, fail. A large number of examples and exercises develop the intuition of students and demonstrate practical applications of the topic to important problems*

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*This text emphasizes the intelligent  
application of approximation  
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*that commonly occur in engineering and the physical sciences. The authors provide a sophisticated introduction to various appropriate approximation techniques; they show students why the methods work, what type of errors to expect,*

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*and when an application might lead to difficulties; and they provide information about the availability of high-quality software for numerical approximation routines*  
*The techniques covered in this text are essentially the same as those*

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*covered in the Sixth Edition of these authors' top-selling Numerical Analysis text, but the emphasis is much different. In Numerical Methods, Second Edition, full mathematical justifications are provided only if they are concise*

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*and add to the understanding of the methods. The emphasis is placed on describing each technique from an implementation standpoint, and on convincing the student that the method is reasonable both mathematically and*

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concise exposition of standard numerical analysis topics Explores nontraditional topics, such as mathematical modeling and Monte Carlo methods Covers modern applications, including information retrieval and animation, and classical applications from physics and engineering Promotes understanding of computational

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Includes recent results on polynomial  
interpolation at Chebyshev points and use  
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discussions of the history of numerical methods interspersed throughout  
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physical sciences. Readers learn why the numerical methods work, what kinds of errors to expect, and when an application might lead to difficulties. The authors also provide information about the availability of high-quality software for numerical approximation routines. The techniques are the same as those covered in the



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authors' top-selling Numerical Analysis text, but this text provides an overview for students who need to know the methods without having to perform the analysis. This concise approach still includes mathematical justifications, but only when they are necessary to understand the methods. The emphasis is placed on

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