



Boris Obsieger

NUMERICAL METHODS I

Basis and Fundamentals



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Numerical Methods I Basis And Fundamentals Boris Obsieger

S. Balachandra Rao, C. K. Shantha



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Numerical Methods I - Basis and Fundamentals Boris Obsieger, 2013-10-25 Numeri ki postupci II Korjeni i sustavi jednad bi Numerische Methoden II Wurzeln und systems gleichungs M todos Num ricos II Ra ces y systems de ecuaciones II

Numerical Methods III - Approximation of Functions Boris Obsieger, 2013-10-25 The book is written primarily for the students on technical universities but also as a useful handbook for engineers and PhD students It introduces reader into various types of approximations of functions which are defined either explicitly or by their values in the distinct set of points as well as into economisation of existing approximation formulas Why the approximation of functions is so important Simply because various functions cannot be calculated without approximation Approximation formulas for some of these functions such as trigonometric functions and logarithms are already implemented in the calculators and standard computer libraries providing the precision to all bits of memory in which a value is stored So high precision is not usually required in the engineering practice and use more numerical operations that is really necessary Economised approximation formulas can provide required precision with less numerical operation and can made numerical algorithms faster especially when such formulas are used in nested loops The other important use of approximation is in calculating functions that are defined by values in the chosen set of points such as in solving integral equations usually obtained from differential equations The book is divided into five chapters In the first chapter are briefly explained basic principles of approximations i e approximations near the chosen point by Maclaurin Taylor or Pad expansion principles of approximations with orthogonal series and principles of least squares approximations In the second chapter various types of least squares polynomial approximations particularly those by using orthogonal polynomials such as Legendre Jacobi Laguerre Hermite Zernike and Gram polynomials are explained Third chapter explains approximations with Fourier series which are the base for developing approximations with Chebyshev polynomials fourth chapter Uniform approximation and further usage of Chebyshev polynomials in the almost uniform approximation as well as in economisation of existing approximation formulas are described in fifth chapter Practical applications of described approximation procedures are supported by 35 algorithms and 40 examples Besides its practical usage the given text with 36 figures and 11 tables partially in colour represents a valuable background for understanding developing and applying various numerical methods such as interpolation numerical integration and solving partial differential equations which are topics in the further volumes of the series Numerical Methods

Numerical Methods II: Roots and Equation Systems Boris Obsieger, 2015-04-29 An amazingly economical version of an excellent textbook established at several universities written for students at technical universities but also as an useful handbook for engineers and scientists Format B W on White Paper 8 5x11 216x279 mm Paperback 92 pages The content of parent edition 260 pgs is scaled and rearranged to fit in the two column layout so that the reader should take into consideration if the applied 7pt font is acceptable for him Standard B W and color versions are also available at all continents About the book The

book introduces the reader into various root finding methods and into methods for solving linear equation systems and series of such systems along with the minimisation of computation time required memory and selective computation of only required unknowns These methods are important because there are many problems in engineering practice and science that cannot be solved without them Some methods are already implemented in calculators and standard program libraries providing their instant use However the use of the described methods gives an opportunity to the reader to take full control over computation and to apply the method which is most suitable for solving his problem This approach can make numerical algorithms more powerful and faster than they used to be The book has four chapters In the first chapter the open and the bracketing root finding methods are briefly explained They can be used for finding roots of nonlinear equations as well as solutions of nonlinear equation systems In the second chapter various standard methods for solving linear equation systems inversion of matrices and calculation of determinants are described There is also the memory sparing sequential substitution method SS which is the background for the sequential elimination method SEM the third chapter and the improved sequential substitution method ISS fourth chapter These direct methods use much less memory than the standard methods and sometimes even less memory than iterative methods The SEM is further optimised for solving systems with populated system matrix while the ISS is a more general method optimised for solving systems with sparse system matrix as well as series of systems There is also the possibility to calculate only the selected unknowns and in that way to remarkably reduce the number of numerical operations and the amount of used computer memory Practical application of the described methods is supported by 37 examples 23 flow charts 51 algorithms and several computer programs written in Fortran and C that can be immediately implemented for any application Reviewed by Prof Maja Fosner D Sc University of Maribor Slovenia Prof Damir Jelaska D Sc University of Split Croatia Prof Valery Lysenko D Sc Academic of the Russian Metrological Academy Russian Research Institute for Metrological Service Russia Prof Iztok Potrc D Sc University of Maribor Slovenia Prof Evgeny Pushkar D Sc Member correspondent of the Russian Academy of Natural Sciences Moscow State Industrial University Russia Proof reading by Senior Lecturer Ksenija Mance prof University of Rijeka Croatia

Numerical Methods I Boris Obsieger, 2013-10-25 Format Black and White on White Paper 7x10 256x178 mm Paperback 260 pages Several other Colour and Black White options are also available About the book An excellent textbook established at several universities Primarily written for students at technical universities it is also a very useful handbook for engineers PhD students and scientists Now available in several forms at all continents This textbook introduces the reader into numeral systems numbers in computers types of variables types of errors and methods for finding roots of polynomials Error analyses and error estimation are supplemented by various types of regression analyses that are usually used in an experimental work by engineers and scientists Why are the presented topics so important Simply they are common to all numerical methods Possibly the most important parts are the descriptions of differences between constant non random and random variables related types of

errors and error propagations Engineers and scientists sometimes ignore the difference between variables of different types roughly interpreting all variables in their computations as the constant variables The consequence of such an approach is a wrong interpretation and estimation of the computation error By understanding the sources and types of errors they can be controlled and possibly reduced That is of crucial importance in almost all applications The book is divided into seven chapters In the first chapter the historical background and basic properties of various numeral systems as well as conversion of numbers from one system to another are briefly explained In the second chapter numbers in digital computers namely integers and floating point numbers are described This helps the reader to choose precision and range limits of stored numbers The third chapter explains constant variables and related numerical errors including error propagation and algorithm instability The forth and fifth chapters explain random variables and related random errors uncertainty confidence level as well as propagation of random errors Various types of regression analyses of experimental data are described in the sixth chapter Direct methods for finding roots of third and forth degree polynomials are described in the seventh chapter followed by general iterative methods for polynomials of any degree Practical application of the adopted knowledge is supported by 76 examples and 13 algorithms In addition the given text with 75 figures and 40 tables represents a valuable background for understanding applying and developing various numerical analyses Reviewed by Prof Maja Fosner D Sc University of Maribor Slovenia Prof Damir Jelaska D Sc University of Split Croatia Prof Valery Lysenko D Sc Academic of the Russian Metrological Academy Russian Research Institute for Metrological Service Russia Prof Iztok Potrc D Sc University of Maribor Slovenia Prof Evgeny Pushkar D Sc Member correspondent of the Russian Academy of Natural Sciences Moscow State Industrial University Russia Proof reading by Senior Lecturer Ksenija Mance prof University of Rijeka Croatia

Numerical Methods Boris Obsieger, 2014-08-15 Format Full Color on White Paper 7x10 256x178 mm Paperback 260 pages Several other Colour and Black White options are also available About the book An excellent textbook established at several universities Primarily written for students at technical universities it is also a very useful handbook for engineers PhD students and scientists Now available in several forms at all continents This textbook introduces the reader into various types of approximations of functions which are defined either explicitly or by their values in the distinct set of points as well as into the economisation of existing approximation formulas Why the approximation of functions is so important Simply various functions such as trigonometric functions and logarithms cannot be calculated without approximation Approximation formulas for some of these functions are already implemented in calculators and standard computer libraries providing accuracy to all the bits in which a value is stored High accuracy is usually not required and requires more numerical operations then necessary Economised approximation formulas can provide the required accuracy with less numerical operations and can make numerical algorithms faster especially when such formulas are nested in loops The other important use of approximation is in calculating functions that are defined by values at a chosen set of points The book is divided into

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Numerical Methods Rajesh Kumar Gupta, 2019-05-09 Written in an easy to understand manner this comprehensive textbook brings together both basic and advanced concepts of numerical methods in a single volume Important topics including error analysis nonlinear equations systems of linear equations interpolation and interpolation for Equal intervals and bivariate interpolation are discussed comprehensively The textbook is written to cater to the needs of undergraduate students of mathematics computer science mechanical engineering civil engineering and information technology for a course on numerical methods numerical analysis The text simplifies the understanding of the concepts through exercises and practical examples Pedagogical features including solved examples and unsolved exercises are interspersed throughout the book for better understanding

An Introduction to Numerical Methods and Analysis
James F. Epperson, 2013-06-06 Praise for the First Edition outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises Zentrablatt Math carefully structured with many detailed worked examples The Mathematical Gazette an up to date and user friendly account Mathematika An Introduction to Numerical Methods and Analysis 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 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 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 Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis Fundamentals of Numerical Methods Paul W. Ross,1981 **A Theoretical Introduction to Numerical Analysis** Victor S. Ryaben'kii,Semyon V. Tsynkov,2006-11-02 A Theoretical Introduction to Numerical Analysis presents the general methodology and principles of numerical analysis illustrating these concepts using numerical methods from real analysis linear algebra and differential equations The book focuses on how to efficiently represent mathematical models for computer based study An accessible yet rigorous mathematical introduction this book provides a pedagogical account of the fundamentals of numerical analysis The authors thoroughly explain basic concepts such as discretization error efficiency complexity numerical stability consistency and convergence The text also addresses more complex topics like intrinsic error limits and the effect of smoothness on the accuracy of approximation in the context of Chebyshev interpolation Gaussian quadratures and spectral methods for differential equations Another advanced subject discussed the method of difference potentials employs discrete analogues of Calderon s potentials and boundary projection operators The authors often delineate various techniques through exercises that require further theoretical study or computer implementation By lucidly presenting the central mathematical concepts of numerical methods A Theoretical Introduction to Numerical Analysis provides a foundational link to more specialized computational work in fluid dynamics acoustics and electromagnetism *Numerical Methods and Optimization* Sergiy Butenko,Panos M. Pardalos,2014-03-11 For students in industrial and systems engineering ISE and operations research OR to understand optimization at an advanced level they must first grasp the analysis of algorithms computational complexity and other concepts and modern developments in numerical methods Satisfying this prerequisite Numerical Methods and Optimization An Introduction combines the materials from introductory numerical methods and introductory optimization courses into a single text This classroom tested approach enriches a standard numerical methods syllabus with optional chapters on numerical optimization and provides a valuable numerical methods background for students taking an introductory OR or optimization course The first part of the text introduces the necessary mathematical background the digital representation of numbers and different types of errors associated with numerical methods The second part explains how to solve typical problems using numerical methods Focusing on optimization methods the final part presents basic theory and algorithms for linear and nonlinear optimization The book assumes minimal prior knowledge of the topics Taking a rigorous yet accessible approach to the material it includes some mathematical proofs as samples of rigorous analysis but in most cases uses only examples to illustrate the concepts While the authors provide a MATLAB guide and code available for

download the book can be used with other software packages

Numerical Methods for Scientists and Engineers Richard W. Hamming, Richard Wesley Hamming, 1986-01-01 This inexpensive paperback edition of a groundbreaking text stresses frequency approach in coverage of algorithms polynomial approximation Fourier approximation exponential approximation and other topics Revised and enlarged 2nd edition

Fundamentals of Numerical Methods Rajeev K Bansal, 2018

Fundamentals of Numerical Methods Rajeev K. Bansa, 2018-04-30 Presents the fundamental concepts of numerical methods for students of mathematics physics and engineering The text strikes a balance between abstract and applied expositions of numerical analysis Insofar as possible each concept is developed in a clear and concise manner and illustrated by pedagogically sound examples so that the material can be assimilated even if the theoretical development is not fully understood The book caters to readers who are interested in the applications of numerical methods It will also be of interest to the students of pure mathematics who are exposed to the numerical methods for the first time

Fundamental of Numerical Methods for Scientists and Engineers Zulzamri Salleh, 2011-04 This book is created to enhance the understanding of Mathematics model in Numeric methodology It is aimed that the scientist and engineer will be more understanding the behind of calculative methods which applied for their job and also suitable for undergraduate student This fundamental approached will give clearer picture the basic concept of ma thematic algorithm and emphasize on their simple formulas It was compared with other advanced numerical book the explanation for the concept is much more complicated and difficult to understand their application formulas Hence those whose interested in Mathematical model by using this book they will get a lot of beneficial ideas and will lead them to solve the problem related to complexity of engineering problem

Numerical Methods in Engineering & Science Graham de Vahl Davis, 2012-12-06 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education It is an outgrowth of a course of lectures and tutorials problem solving sessions which the author has given for a number of years at the University of New South Wales and elsewhere The course is normally taught at the rate of 1i hours per week throughout an academic year 28 weeks It has occasionally been given at double this rate over half the year but it was found that students had insufficient time to absorb the material and experiment with the methods The material presented here is rather more than has been taught in anyone year although all of it has been taught at some time The book is concerned with the application of numerical methods to the solution of equations algebraic transcendental and differential which will be encountered by students during their training and their careers The theoretical foundation for the methods is not rigorously covered Engineers and applied scientists but not of course mathematicians are more con cerned with using methods than with proving that they can be used However they must be satisfied that the methods are fit to be used and it is hoped that students will perform sufficient numerical experiments to con vince themselves of this without the need for more than the minimum of theory which is presented here

From Scratch to Numerical Methods Svetlana Karitskaya, Sergey

Ponomarev,2013-08-16 This book is about numerical calculations from scratch to three most utilized methods Everyone who needs to use integrals and equations in practical applications will benefit from it How to calculate any integral or solve any equation is simply and exclusively explained through 25 exercises along with additional homework and computer algorithms The material of the book is based on the lectures taught by the author at Ural Federal University named after The First President of Russia Boris Yeltsin for students specialized in thermal engineering electrical engineering and electrical technology metallurgy mechanical engineering and materials processing The Russian edition of the book entitled Numerical Methods and Basics of Computer Simulation was published by Ural Federal University in 2011 This English edition entitled From Scratch To Numerical Methods 25 Exercises is a new version updated and adapted for students of engineering majors at Western institutions to get them acquainted with the style of the modern teaching of mathematics at universities and colleges in Russia

A First Course in Numerical Methods

Uri M. Ascher,Chen Greif,2011-07-14 Offers students a practical knowledge of modern techniques in scientific computing

Numerical Methods in Engineering & Science

Graham de Vahl Davis,2012-03-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education It is an outgrowth of a course of lectures and tutorials problem solving sessions which the author has given for a number of years at the University of New South Wales and elsewhere The course is normally taught at the rate of 11 hours per week throughout an academic year 28 weeks It has occasionally been given at double this rate over half the year but it was found that students had insufficient time to absorb the material and experiment with the methods The material presented here is rather more than has been taught in anyone year although all of it has been taught at some time The book is concerned with the application of numerical methods to the solution of equations algebraic transcendental and differential which will be encountered by students during their training and their careers The theoretical foundation for the methods is not rigorously covered Engineers and applied scientists but not of course mathematicians are more concerned with using methods than with proving that they can be used However they must be satisfied that the methods are fit to be used and it is hoped that students will perform sufficient numerical experiments to convince themselves of this without the need for more than the minimum of theory which is presented here

Numerical Methods S. Balachandra Rao,C. K. Shantha,2004 The book discusses the important numerical methods which are frequently used in mathematical physical engineering and even biological sciences It will serve as an ideal textbook for the undergraduate and diploma courses The revised edition has a section on C and programs in C

Numerical Methods

Wolfgang Boehm,Hartmut Prautzsch,1993-03-15 An elementary introduction to methods of numerical analysis for undergraduate students in mathematics computer science and all other fields of science and engineering

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Numerical Methods I Basis And Fundamentals Boris Obsieger**

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Table of Contents Numerical Methods I Basis And Fundamentals Boris Obsieger

1. Understanding the eBook Numerical Methods I Basis And Fundamentals Boris Obsieger
 - The Rise of Digital Reading Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Methods I Basis And Fundamentals Boris Obsieger
 - User-Friendly Interface

4. Exploring eBook Recommendations from Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Personalized Recommendations
 - Numerical Methods I Basis And Fundamentals Boris Obsieger User Reviews and Ratings
 - Numerical Methods I Basis And Fundamentals Boris Obsieger and Bestseller Lists
5. Accessing Numerical Methods I Basis And Fundamentals Boris Obsieger Free and Paid eBooks
 - Numerical Methods I Basis And Fundamentals Boris Obsieger Public Domain eBooks
 - Numerical Methods I Basis And Fundamentals Boris Obsieger eBook Subscription Services
 - Numerical Methods I Basis And Fundamentals Boris Obsieger Budget-Friendly Options
6. Navigating Numerical Methods I Basis And Fundamentals Boris Obsieger eBook Formats
 - ePub, PDF, MOBI, and More
 - Numerical Methods I Basis And Fundamentals Boris Obsieger Compatibility with Devices
 - Numerical Methods I Basis And Fundamentals Boris Obsieger Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Highlighting and Note-Taking Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Interactive Elements Numerical Methods I Basis And Fundamentals Boris Obsieger
8. Staying Engaged with Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Methods I Basis And Fundamentals Boris Obsieger
9. Balancing eBooks and Physical Books Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Methods I Basis And Fundamentals Boris Obsieger
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Setting Reading Goals Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Fact-Checking eBook Content of Numerical Methods I Basis And Fundamentals Boris Obsieger
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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