



Boris Obsieger

NUMERICAL METHODS I

Basis and Fundamentals



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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 make 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 a 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 Oštriciger, 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

five chapters. The first chapter briefly explains Maclaurin Taylor or Padé expansion principles of approximations with orthogonal series and principles of the least squares approximations. In the second chapter various types of least squares polynomial approximations particularly those using Legendre, Jacobi, Laguerre, Hermite, Zernike and Gram orthogonal polynomials are explained. The third chapter explains approximations with Fourier series which are the base for developing approximations with Chebyshev polynomials. The fourth chapter is on Uniform approximation and further usage of Chebyshev polynomials in the almost uniform approximation as well as in the economisation of the existing approximation formulas are described. In the fifth chapter Practical application of the described approximation procedures is supported by 40 examples and 37 algorithms. In addition to its practical usage the given text with 37 figures and 12 tables represents a valuable background for understanding using developing and applying various numerical methods such as interpolation, numerical integration and solving partial differential equations which are topics covered in the following volumes of the series.

Numerical Methods 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

Jasenka Toplicanec prof Zagreb Croatia **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 extrapolation 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.

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 is 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.

Fundamentals of Numerical Methods Paul W. Ross, 1981 *Fundamentals of Numerical Methods* Rajeev K. Bansal, 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.

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.

An Introduction to Numerical Methods and Analysis James F. Epperson, 2021-07-21
The new edition of the popular introductory textbook on numerical approximation methods and mathematical analysis with a unique emphasis on real world application. *An Introduction to Numerical Methods and Analysis* helps students gain a solid understanding of a wide range of numerical approximation methods for solving problems of mathematical analysis. Designed for entry level courses on the subject, this popular textbook maximizes teaching flexibility by first covering basic topics before gradually moving to more advanced material in each chapter and section. Throughout the text, students are provided clear and accessible guidance on a wide range of numerical methods and analysis techniques, including root finding, numerical integration, interpolation, solution of systems of equations, and many others. This fully revised third edition contains new sections on higher order difference methods, the bisection and inertia method for computing eigenvalues of a symmetric matrix, a completely re-written section on different methods for Poisson equations, and spectral methods for higher dimensional problems. New problem sets ranging in difficulty from simple computations to challenging derivations and proofs are complemented by computer programming exercises, illustrative examples, and sample code. This acclaimed textbook explains how to both construct and evaluate approximations for accuracy and performance. Covers both elementary concepts and tools and higher level methods and solutions. Features new and updated material reflecting new trends and applications in the field. Contains an introduction to key concepts, a calculus review, an updated primer on computer arithmetic, a brief history of scientific computing, a survey of computer languages and software, and a revised literature review. Includes an appendix of proofs of selected theorems and a companion website with additional exercises, application models, and

supplemental resources An Introduction to Numerical Methods and Analysis Third Edition is the perfect textbook for upper level undergraduate students in mathematics science and engineering courses as well as for courses in the social sciences medicine and business with numerical methods and analysis components Fundamentals of Numerical Methods Rajeev K Bansal,2018 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 **Basic Numerical Methods** R. E. Scranton,1984 Numbers errors and accuracy Iterative methods Solution of equations Simultaneous equations I Simultaneous equations II Numerical integration Differential equations I Differential equations II Numerical Methods and Optimization Jean-Pierre Corriou,2022-01-04 This text covering a very large span of numerical methods and optimization is primarily aimed at advanced undergraduate and graduate students A background in calculus and linear algebra are the only mathematical requirements The abundance of advanced methods and practical applications will be attractive to scientists and researchers working in different branches of engineering The reader is progressively introduced to general numerical methods and optimization algorithms in each chapter Examples accompany the various methods and guide the students to a better understanding of the applications The user is often provided with the opportunity to verify their results with complex programming code Each chapter ends with graduated exercises which furnish the student with new cases to study as well as ideas for exam homework problems for the instructor A set of programs made in MatlabTM is available on the author s personal website and presents both numerical and optimization methods A First Course in Numerical Analysis Anthony Ralston,Philip Rabinowitz,2001-01-01 Outstanding text oriented toward computer solutions stresses errors in methods and computational efficiency Problems some strictly mathematical others requiring a computer appear at the end of each chapter Numerical Methods Srimanta Pal,2009 With an objective

to provide a firm understanding of the basic concepts of numerical methods the book provides introductory chapters on number systems binary arithmetic and programming tools and techniques for different programming languages such as C C BASIC and FORTRAN Subsequently the book offers an exhaustive coverage of topics such as numerical solutions of linear and non linear equations eigenvlues and eigenvectors linear least squares problem with interpolation and extrapolation numerical differentiation and integration ordinary differential equations partial differential equations and parabolic and elliptic partial differential equations Written in a lucid style the book contains a large number of solved examples and numerous end chapter exercises to make for a student friendly book The book will also be useful to postgraduate students as well as to practicing numerical analysts statisticians and engineers **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

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 for Scientists and Engineers* Richard Wesley Hamming, 1973 This inexpensive paperback edition of a groundbreaking text stresses frequency approach in coverage of algorithms polynomial approximation Fourier approximation exponential approximation other topics Revised and enlarged 2nd edition

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