Jean-Paul Delahaye

Sequence Transformations

Sequence Transformations Springer Series In Computational Mathematics Vol 11

Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Ana Maria A. C. Rocha,Chiara Garau

Sequence Transformations Springer Series In Computational Mathematics Vol 11:

Sequence Transformations Jean-Paul Delahaye,2012-12-06 The book gives a very clear and concise summary of the important fields of sequence transformations and convergence acceleration methods Some of the outstanding features are precise definitions of algorithmic sequence transformations a study of the power of sequence transformations proof of negative results on acceleration methods namely that some sequence families are not accelerable new algorithms for convergence acceleration in particular automatic selection procedures For researchers and graduate students working in or with convergence acceleration methods and sequence transformations this book is sure to become an important tool This book is a contribution to the theory and practice of convergence acceleration methods It gives a new survey point of view on the subject with positive results new method of acceleration and negative results proofs that some sequence families are not accelerable   Orthogonal Polynomials Walter Gautschi,2004-04-29 This is the first book on constructive methods for and applications of orthogonal polynomials and the first available collection of relevant Matlab codes The book begins with a concise introduction to the theory of polynomials orthogonal on the real line or a portion thereof relative to a positive measure of integration Topics which are particularly relevant to computation are emphasized The second chapter develops computational methods for generating the coefficients in the basic three term recurrence relation The methods are of two kinds moment based methods and discretization methods The former are provided with a detailed sensitivity analysis Other topics addressed concern Cauchy integrals of orthogonal polynomials and their computation a new discussion of modification algorithms and the generation of Sobolev orthogonal polynomials The final chapter deals with selected applications the numerical evaluation of integrals especially by Gauss type quadrature methods polynomial least squares approximation moment preserving spline approximation and the summation of slowly convergent series Detailed historic and bibliographic notes are appended to each chapter The book will be of interest not only to mathematicians and numerical analysts but also to a wide clientele of scientists and engineers who perceive a need for applying orthogonal polynomials   **Solving Ordinary Differential Equations II** Ernst Hairer,Gerhard Wanner,2013-03-14 Whatever regrets may be we have done our best Sir Ernest Shackleton turning back on 9 January 1909 at 88 23 South Brahms struggled for 20 years to write his first symphony Compared to this the 10 years we have been working on these two volumes may even appear short This second volume treats stiff differential equations and differential alge braic equations It contains three chapters Chapter IV on one step Runge Kutta methods for stiff problems Chapter Von multistep methods for stiff problems and Chapter VI on singular perturbation and differential algebraic equations Each chapter is divided into sections Usually the first sections of a chapter are of an introductory nature explain numerical phenomena and exhibit numerical results Investigations of a more theoretieal nature are presented in the later sections of each chapter As in Volume I the formulas theorems tables and figures are numbered consecutively in each section and indicate in addition the section num ber In cross references to other chapters

the latin chapter number is put first References to the bibliography are again by author plus year in parentheses The bibliography again contains only those papers which are discussed in the text and is in no way meant to be complete

History of Continued Fractions and Padé Approximants Claude Brezinski,2012-12-06 The history of continued fractions is certainly one of the longest among those of mathematical concepts since it begins with Euclid s algorithm for the great est common divisor at least three centuries B C As it is often the case and like Monsieur Jourdain in Moliere s Ie bourgeois gentilhomme who was speak ing in prose though he did not know he was doing so continued fractions were used for many centuries before their real discovery The history of continued fractions and Pade approximants is also quite im portant since they played a leading role in the development of some branches of mathematics For example they were the basis for the proof of the tran scendence of 11 in 1882 an open problem for more than two thousand years and also for our modern spectral theory of operators Actually they still are of great interest in many fields of pure and applied mathematics and in numerical analysis where they provide computer approximations to special functions and are connected to some convergence acceleration methods Con tinued fractions are also used in number theory computer science automata electronics etc **Numerical Methods for Singularly Perturbed Differential Equations** Hans-Görg Roos,Martin Stynes,Lutz Tobiska,2013-06-29 The analysis of singular perturbed differential equations began early in this century when approximate solutions were constructed from asymptotic ex pansions Preliminary attempts appear in the nineteenth century vD94 This technique has flourished since the mid 1960s Its principal ideas and methods are described in several textbooks Nevertheless asymptotic ex pansions may be impossible to construct or may fail to simplify the given problem then numerical approximations are often the only option The systematic study of numerical methods for singular perturbation problems started somewhat later in the 1970s While the research frontier has been steadily pushed back the exposition of new developments in the analysis of numerical methods has been neglected Perhaps the only example of a textbook that concentrates on this analysis is DMS80 which collects various results for ordinary differential equations but many methods and techniques that are relevant today especially for partial differential equa tions were developed after 1980 Thus contemporary researchers must comb the literature to acquaint themselves with earlier work Our purposes in writing this introductory book are twofold First we aim to present a structured account of recent ideas in the numerical analysis of singularly perturbed differential equations Second this important area has many open problems and we hope that our book will stimulate further investigations Our choice of topics is inevitably personal and reflects our own main interests

Numerical Methods Based on Sinc and Analytic Functions Frank Stenger,2012-12-06 Many mathematicians scientists and engineers are familiar with the Fast Fourier Transform a method based upon the Discrete Fourier Transform Perhaps not so many mathematicians scientists and engineers recognize that the Discrete Fourier Transform is one of a family of symbolic formulae called Sinc methods Sinc methods are based upon the Sinc function a wavelet like function

replete with identities which yield approximations to all classes of computational problems Such problems include problems over finite semi infinite or infinite domains problems with singularities and boundary layer problems Written by the principle authority on the subject this book introduces Sinc methods to the world of computation It serves as an excellent research sourcebook as well as a textbook which uses analytic functions to derive Sinc methods for the advanced numerical analysis and applied approximation theory classrooms Problem sections and historical notes are included **Numerical Continuation Methods** Eugene L. Allgower,Kurt Georg,2012-12-06 Over the past fifteen years two new techniques have yielded extremely important contributions toward the numerical solution of nonlinear systems of equations This book provides an introduction to and an up to date survey of numerical continuation methods tracing of implicitly defined curves of both predictor corrector and piecewise linear types It presents and analyzes implementations aimed at applications to the computation of zero points fixed points nonlinear eigenvalue problems bifurcation and turning points and economic equilibria Many algorithms are presented in a pseudo code format An appendix supplies five sample FORTRAN programs with numerical examples which readers can adapt to fit their purposes and a description of the program package SCOUT for analyzing nonlinear problems via piecewise linear methods An extensive up to date bibliography spanning 46 pages is included The material in this book has been presented to students of mathematics engineering and sciences with great success and will also serve as a valuable tool for researchers in the field Analysis of Charge Transport Joseph W. Jerome,2012-12-06 This book addresses the mathematical aspects of semiconductor modeling with particular attention focused on the drift diffusion model The aim is to provide a rigorous basis for those models which are actually employed in practice and to analyze the approximation properties of discretization procedures The book is intended for applied and computational mathematicians and for mathematically literate engineers who wish to gain an understanding of the mathematical framework that is pertinent to device modeling The latter audience will welcome the introduction of hydrodynamic and energy transport models in Chap 3 Solutions of the nonlinear steady state systems are analyzed as the fixed points of a mapping T or better a family of such mappings distinguished by system decoupling Significant attention is paid to questions related to the mathematical properties of this mapping termed the Gummel map Compu tational aspects of this fixed point mapping for analysis of discretizations are discussed as well We present a novel nonlinear approximation theory termed the Kras nosel skii operator calculus which we develop in Chap 6 as an appropriate extension of the Babuska Aziz inf sup linear saddle point theory It is shown in Chap 5 how this applies to the semiconductor model We also present in Chap 4 a thorough study of various realizations of the Gummel map which includes non uniformly elliptic systems and variational inequalities In Chap **Manuscripta Mathematica** ,1989 **Numerical Analysis: Historical Developments in the 20th Century** C. Brezinski,L. Wuytack,2012-12-02 Numerical analysis has witnessed many significant developments in the 20th century This book brings together 16 papers dealing with historical developments survey papers and papers on

recent trends in selected areas of numerical analysis such as approximation and interpolation solution of linear systems and eigenvalue problems iterative methods quadrature rules solution of ordinary partial and integral equations The papers are reprinted from the 7 volume project of the Journal of Computational and Applied Mathematics on homepage sac cam na2000 index htmlNumerical Analysis 2000 An introductory survey paper deals with the history of the first courses on numerical analysis in several countries and with the landmarks in the development of important algorithms and concepts in the field

Lancelot A.R. Conn,G.I.M. Gould,P.L. Toint,2013-04-17 LANCELOT is a software package for solving large scale nonlinear optimization problems This book is our attempt to provide a coherent overview of the package and its use This includes details of how one might present examples to the package how the algorithm tries to solve these examples and various technical issues which may be useful to implementors of the software We hope this book will be of use to both researchers and practitioners in nonlinear programming Although the book is primarily concerned with a specific optimization package the issues discussed have much wider implications for the design and im plementation of large scale optimization algorithms In particular the book contains a proposal for a standard input format for large scale optimization problems This proposal is at the heart of the interface between a user s problem and the LANCE LOT optimization package Furthermore a large collection of over five hundred test ex amples has already been written in this format and will shortly be available to those who wish to use them We would like to thank the many people and organizations who supported us in our enterprise We first acknowledge the support provided by our employers namely the the Facultes Universitaires Notre Dame de la Paix Namur Belgium Harwell Laboratory UK IBM Corporation USA Rutherford Appleton Laboratory UK and the University of Waterloo Canada We are grateful for the support we obtained from NSERC Canada NATO and AMOCO UK

Current Topics in Summability Theory and Applications Hemen Dutta,Billy E. Rhoades,2016-04-28 This book discusses recent developments in and contemporary research on summability theory including general summability methods direct theorems on summability absolute and strong summability special methods of summability functional analytic methods in summability and related topics and applications All contributing authors are eminent scientists researchers and scholars in their respective fields and hail from around the world The book can be used as a textbook for graduate and senior undergraduate students and as a valuable reference guide for researchers and practitioners in the fields of summability theory and functional analysis Summability theory is generally used in analysis and applied mathematics It plays an important part in the engineering sciences and various aspects of the theory have long since been studied by researchers all over the world   **Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan** Josef Dick,Frances Y. Kuo,Henryk Woźniakowski,2018-05-23 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics These papers highlight the impact and many achievements of Professor Sloan in

his distinguished academic career The book also presents state of the art knowledge in many computational fields such as quasi Monte Carlo and Monte Carlo methods for multivariate integration multi level methods finite element methods uncertainty quantification spherical designs and integration on the sphere approximation and interpolation of multivariate functions oscillatory integrals and in general in information based complexity and tractability as well as in a range of other topics The book also tells the life story of the renowned mathematician family man colleague and friend who has been an inspiration to many of us The reader may especially enjoy the story from the perspective of his family his wife his daughter and son as well as grandchildren who share their views of Ian The clear message of the book is that Ian H Sloan has been a role model in science and life **Books in Series, 1876-1949** R.R. Bowker Company,1982 *Computational Science and Its Applications – ICCSA 2022 Workshops* Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Ana Maria A. C. Rocha,Chiara Garau,2022-08-03 The eight volume set LNCS 13375 13382 constitutes the proceedings of the 22nd International Conference on Computational Science and Its Applications ICCSA 2022 which was held in Malaga Spain during July 4 7 2022 The first two volumes contain the proceedings from ICCSA 2022 which are the 57 full and 24 short papers presented in these books were carefully reviewed and selected from 279 submissions The other six volumes present the workshop proceedings containing 285 papers out of 815 submissions These six volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2022 Workshop on Advancements in Applied Machine learning and Data Analytics AAMDA 2022 Advances in information Systems and Technologies for Emergency management risk assessment and mitigation based on the Resilience ASTER 2022 Advances in Web Based Learning AWBL 2022 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2022 Bio and Neuro inspired Computing and Applications BIONCA 2022 Configurational Analysis For Cities CA Cities 2022 Computational and Applied Mathematics CAM 2022 Computational and Applied Statistics CAS 2022 Computational Mathematics Statistics and Information Management CMSIM Computational Optimization and Applications COA 2022 Computational Astrochemistry CompAstro 2022 Computational methods for porous geomaterials CompPor 2022 Computational Approaches for Smart Conscious Cities CASCC 2022 Cities Technologies and Planning CTP 2022 Digital Sustainability and Circular Economy DiSCE 2022 Econometrics and Multidimensional Evaluation in Urban Environment EMEUE 2022 Ethical AI applications for a human centered cyber society EthicAI 2022 Future Computing System Technologies and Applications FiSTA 2022 Geographical Computing and Remote Sensing for Archaeology GCRSArcheo 2022 Geodesign in Decision Making meta planning and collaborative design for sustainable and inclusive development GDM 2022 Geomatics in Agriculture and Forestry new advances and perspectives GeoForAgr 2022 Geographical Analysis Urban Modeling Spatial Statistics Geog An Mod 2022 Geomatics for Resource Monitoring and Management GRMM 2022 International Workshop on Information and Knowledge in the Internet of Things IKIT 2022 13th International Symposium on

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Thus this book is suitable for graduate students or advanced undergraduates as well as for mature researchers wishing to know more about this fascinating subject Results are presented from first principles wherever feasible and the book is supplemented by a collection of 460 exercises 85 open problems and over 1600 citations to the literature *Books in Series* ,1985 Vols for 1980 issued in three parts Series Authors and Titles **Uniform Distribution and Quasi-Monte Carlo Methods** Peter Kritzer,Harald Niederreiter,Friedrich Pillichshammer,Arne Winterhof,2014-06-23 This book is summarizing the results of the workshop Uniform Distribution and Quasi Monte Carlo Methods of the RICAM Special Semester on Applications of Algebra and Number Theory in October 2013 The survey articles in this book focus on number theoretic point constructions uniform distribution theory and quasi Monte Carlo methods As deterministic versions of the Monte Carlo method quasi Monte Carlo rules enjoy increasing popularity with many fruitful applications in mathematical practice as for example in finance computer graphics and biology The goal of this book is to give an overview of recent developments in uniform distribution theory quasi Monte Carlo methods and their applications presented by leading experts in these vivid fields of research

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