

Kenneth R. Meyer
Dieter S. Schmidt
Editors

Computer Aided Proofs in Analysis



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Computer Aided Proofs In Analysis

S Ben Porath



Computer Aided Proofs In Analysis:

Computer Aided Proofs in Analysis Kenneth R Meyer,Dieter S Schmidt,1990-12-05 **Computer Aided Proofs in Analysis** Kenneth R. Meyer,Dieter S. Schmidt,1991 This IMA Volume in Mathematics and its Applications COMPUTER AIDED PROOFS IN ANALYSIS is based on the proceedings of an IMA Participating Institutions PI Conference held at the University of Cincinnati in April 1989 Each year the 19 Participating Institutions select through a competitive process several conferences proposals from the PIs for partial funding This conference brought together leading figures in a number of fields who were interested in finding exact answers to problems in analysis through computer methods We thank Kenneth Meyer and Dieter Schmidt for organizing the meeting and editing the proceedings A vner Friedman Willard Miller Jr PREFACE Since the dawn of the computer revolution the vast majority of scientific computation has dealt with finding approximate solutions of equations However during this time there has been a small cadre seeking precise solutions of equations and rigorous proofs of mathematical results For example number theory and combinatorics have a long history of computer assisted proofs such methods are now well established in these fields In analysis the use of computers to obtain exact results has been fragmented into several schools On Some Computer-aided Proofs in Analysis Tomas Johnson,Uppsala universitet. Matematiska institutionen,2007 Computer-assisted Proofs in Analysis and Programming in Logic Hans Koch,Alain Schenkel,Peter Wittwer,Université de Genève. Département de physique théorique,1994 **Computer Assisted Proofs in Analysis** O. E. Lanford III,1987 **Lectures on Finite Precision Computations** Francoise Chaitin-Chatelin,Valérie Fraysse,1996-01-01 Finite precision computations are at the heart of the daily activities of many engineers and researchers in all branches of applied mathematics Written in an informal style the book combines techniques from engineering and mathematics to describe the rigorous and novel theory of computability in finite precision In the challenging cases of nonlinear problems theoretical analysis is supplemented by software tools to explore the stability on the computer *Mathematical Physics Electronic Journal* Rafael De La Llave,2002 The aim of this journal is to publish papers in mathematical physics and related areas that are of the highest quality Research papers and review articles are selected through the normal refereeing process overseen by an editorial board The research su **Rigorous Numerics in Dynamics** Jan Bouwe van den Berg,Jean-Philippe Lessard,2018-07-12 This volume is based on lectures delivered at the 2016 AMS Short Course Rigorous Numerics in Dynamics held January 4 5 2016 in Seattle Washington Nonlinear dynamics shapes the world around us from the harmonious movements of celestial bodies via the swirling motions in fluid flows to the complicated biochemistry in the living cell Mathematically these phenomena are modeled by nonlinear dynamical systems in the form of ODEs PDEs and delay equations The presence of nonlinearities complicates the analysis and the difficulties are even greater for PDEs and delay equations which are naturally defined on infinite dimensional function spaces With the availability of powerful computers and sophisticated software numerical simulations have quickly become the primary tool to

study the models However while the pace of progress increases one may ask just how reliable are our computations Even for finite dimensional ODEs this question naturally arises if the system under study is chaotic as small differences in initial conditions such as those due to rounding errors in numerical computations yield wildly diverging outcomes These issues have motivated the development of the field of rigorous numerics in dynamics which draws inspiration from ideas in scientific computing numerical analysis and approximation theory The articles included in this volume present novel techniques for the rigorous study of the dynamics of maps via the Conley index theory periodic orbits of delay differential equations via continuation methods invariant manifolds and connecting orbits the dynamics of models with unknown nonlinearities and bifurcations diagrams

[The Princeton Companion to Applied Mathematics](#) Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-15 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics dynamical systems numerical analysis discrete and combinatorial mathematics mathematical physics and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading cross references and a comprehensive index

Perspectives on Enclosure Methods

Ulrich Kulisch, Rudolf Lohner, Axel Facius, 2012-12-06 Enclosure methods and their applications have been developed to a high standard during the last decades These methods guarantee the validity of the computed results This means they are of the same standard as the rest of mathematics The book deals with a wide variety of aspects of enclosure methods All contributions follow the common goal to push the limits of enclosure methods forward Topics that are treated include basic questions of arithmetic proving conjectures bounds for Krylov type linear system solvers bounds for eigenvalues the wrapping effect algorithmic differencing differential equations finite element methods application in robotics and nonsmooth global optimization

[Encyclopedia of Optimization](#) Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the

former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling Computer Aided Systems Theory ,2001 Scientific Computing and Validated Numerics G. Alefeld, Andreas Frommer, Bruno Lang,1996 The International Symposium on Scientific Computing Computer Arithmetic and Validated Numerics SCAN is held biannually the fourth conference took place in Wuppertal 1995 This volume contains contributions from outstanding research specialists based on their presentations at SCAN 95 It covers all aspects of scientific computing with validation starting with the latest developments in the design of floating point units together with algorithms for floating point operations and elementary function evaluations with maximum accuracy The book continues by treating scientific computing methods for many areas of applied mathematics such as numerical linear algebra nonlinear equations global optimization ordinary and partial differential equations and dynamical systems Some computer science aspects like complexity are also considered as are examples where validation methods have successfully be used in applications from the engineering sciences The Cumulative Book Index ,1992 A world list of books in the English language Mathematical Reviews ,2006 Directory of Published Proceedings ,1996 Mathematical Physics X ,1992 Numerical Methods for Polymeric Systems Stuart G. Whittington,1998-08-13 This book contains contributions from a workshop on numerical methods for polymeric systems held at the IMA in May 1996 The workshop brought together chemists physicists mathematicians computer scientists and statisticians with a common interest in numerical methods This book is of interest to workers in polymer statistical at mechanics and also to a wider audience interested in numerical methods and their application in polymeric systems Types for Proofs and Programs ,2000 Index of Conference Proceedings British Library. Document Supply Centre,1991

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