Springer Series in Computational Mathematics

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Elliptic Functions Springer Series In Computational Mathematics

Kristin Estella Lauter

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Experimental and Computational Mathematics Jonathan M. Borwein,2010 A quiet revolution in mathematical computing and scientific visualization took place in the latter half of the 20th century These developments have dramatically enhanced modes of mathematical insight and opportunities for exploratory computational experimentation This volume collects the experimental and computational contributions of Jonathan and Peter Borwein over the past quarter century *Handbook of Complex Analysis* Reiner Kuhnau,2004-12-09 Geometric Function Theory is that part of Complex Analysis which covers the theory of conformal and quasiconformal mappings Beginning with the classical Riemann mapping theorem there is a lot of existence theorems for canonical conformal mappings On the other side there is an extensive theory of qualitative properties of conformal and quasiconformal mappings concerning mainly a prior estimates so called distortion theorems including the Bieberbach conjecture with the proof of the Branges Here a starting point was the classical Scharz lemma and then Koebe s distortion theorem There are several connections to mathematical physics because of the relations to potential theory in the plane The Handbook of Geometric Function Theory contains also an article about constructive methods and further a Bibliography including applications eg to electroxtatic problems heat conduction potential flows in the plane A collection of independent survey articles in the field of GeometricFunction Theory Existence theorems and qualitative properties of conformal and quasiconformal mappings A bibliography including many hints to applications in electrostatics heat conduction potential flows in the plane *Inverse Problems and Optimal Design in Electricity and Magnetism* Pekka Neittaanmäki,M. Rudnicki,A. Savini,1996-01-11 The impact of optimization methods in electromagnetism has been much less than in mechanical engineering and particularly the solution of inverse problems in structural mechanics This book addresses this omission it will serve as a guide to the theory as well as the computer implementation of solutions It is self contained covering all the mathematical theory necessary Modular Forms: A Classical And Computational Introduction (2nd Edition) Lloyd James Peter Kilford,2015-03-12 Modular Forms is a graduate student level introduction to the classical theory of modular forms and computations involving modular forms including modular functions and the theory of Hecke operators It also includes applications of modular forms to various subjects such as the theory of quadratic forms the proof of Fermat s Last Theorem and the approximation of The text gives a balanced overview of both the theoretical and computational sides of its subject allowing a variety of courses to be taught from it This second edition has been revised and updated New material on the future of modular forms as well as a chapter about longer form projects for students has also been added **Shape Optimization** Catherine Bandle,Alfred Wagner,2023-06-19 This book investigates how domain dependent quantities from geometry and physics behave when the domain is perturbed Of particular interest are volume and perimeter preserving perturbations The first and second derivatives with respect to the perturbation are exploited for domain functionals like eigenvalues energies and geometrical quantities They provide necessary conditions for optimal domains and

are useful when global approaches like symmetrizations fail The book is exampledriven and illustrates the usefulness of domain variations in various applications   **A Posteriori Error Estimation Techniques for Finite Element Methods** Rüdiger Verfürth,2013-04-18 Self adaptive discretization methods are now an indispensable tool for the numerical solution of partial differential equations that arise from physical and technical applications The aim is to obtain a numerical solution within a prescribed tolerance using a minimal amount of work The main tools in achieving this goal are a posteriori error estimates which give global and local information on the error of the numerical solution and which can easily be computed from the given numerical solution and the data of the differential equation This book reviews the most frequently used a posteriori error estimation techniques and applies them to a broad class of linear and nonlinear elliptic and parabolic equations Although there are various approaches to adaptivity and a posteriori error estimation they are all based on a few common principles The main aim of the book is to elaborate these basic principles and to give guidelines for developing adaptive schemes for new problems Chapters 1 and 2 are quite elementary and present various error indicators and their use for mesh adaptation in the framework of a simple model problem The basic principles are introduced using a minimal amount of notations and techniques providing a complete overview for the non specialist Chapters 4 6 on the other hand are more advanced and present a posteriori error estimates within a general framework using the technical tools collected in Chapter 3 Most sections close with a bibliographical remark which indicates the historical development and hints at further results

    Continued Fractions Lisa Lorentzen,Haakon Waadeland,2008 Continued Fractions consists of two volumes Volume 1 Convergence Theory and Volume 2 Representation of Functions tentative title which is expected in 2011 Volume 1 is dedicated to the convergence and computation of continued fractions while Volume 2 will treat representations of meromorphic functions by continued fractions Taken together the two volumes will present the basic continued fractions theory without requiring too much previous knowledge some basic knowledge of complex functions will suffice Both new and advanced graduate students of continued fractions shall get a comprehensive understanding of how these infinite structures work in a number of applications and why they work so well A varied buffet of possible applications to whet the appetite is presented first before the more basic but modernized theory is given This new edition is the result of an increasing interest in computing special functions by means of continued fractions The methods described in detail are in many cases very simple yet reliable and efficient   **Mathematical Modelling in Biomedicine** Vitaly Volpert,2021-01-26 Mathematical modelling in biomedicine is a rapidly developing scientific discipline at the intersection of medicine biology mathematics physics and computer science Its progress is stimulated by fundamental scientific questions and by the applications to public health This book represents a collection of papers devoted to mathematical modelling of various physiological problems in normal and pathological conditions It covers a broad range of topics including cardiovascular system and diseases heart and brain modelling tumor growth viral infections and immune response Computational models of blood circulation are used to study

the influence of heart arrhythmias on coronary blood flow and on operating modes for left ventricle assisted devices Wave propagation in the cardiac tissue is investigated in order to show the influence of tissue heterogeneity and fibrosis The models of tumor growth are used to determine optimal protocols of antiangiogenic and radiotherapy The models of viral hepatitis kinetics are considered for the parameter identification and the evolution of viral quasi species is investigated The book presents the state of the art in mathematical modelling in biomedicine and opens new perspectives in this passionate field of research   **A Posteriori Error Estimation for Hybridized Mixed and Discontinuous Galerkin Methods** Johannes Neher,2012 There is a variety of finite element based methods applicable to the discretization of second order elliptic boundary value problems in mixed form However it is expensive to solve the resulting discrete linear system due to its size and its algebraic structure Hybridization serves as a tool to circumvent these difficulties Furthermore hybridization is an elegant concept to establish connections among various finite element methods In this work connections between the methods and their hybridized counterparts are established after showing the link between three different formulations of the elliptic model problem The main part of the work contains the development of a reliable a posteriori error estimator which is applicable to all of the methods above This estimator is the key ingredient of an adaptive numerical approximation of the original boundary value problem Finally a number of numerical tests is discussed in order to exhibit the performance of the adaptive hybridized methods   *Geometric Regularization in Bioluminescence Tomography* Kreutzmann, Tim,2014-01-16 Bioluminescence tomography is a recent biomedical imaging technique which allows to study molecular and cellular activities in vivo From a mathematical point of view it is an ill posed inverse source problem the location and the intensity of a photon source inside an organism have to be determined given the photon count on the organism s surface To face the ill posedness of this problem a geometric regularization approach is introduced analyzed and numerically verified in this book

   Public Key Cryptosystems Esra Bas,2024-12-30 This book is a short book about public key cryptosystems digital signature algorithms and their basic cryptanalysis which are provided at a basic level so that it can be easy to understand for the undergraduate engineering students who can be defined as the core audience To provide the necessary background Chapters 1 and 2 are devoted to the selected fundamental concepts in cryptography mathematics and selected fundamental concepts in cryptography Chapter 3 is devoted to discrete logarithm problem DLP DLP related public key cryptosystems digital signature algorithms and their cryptanalysis In this chapter the elliptic curve counterparts of the algorithms and the basic algorithms for the solution of DLP are also given In Chapter 4 RSA public key cryptosystem RSA digital signature algorithm the basic cryptanalysis approaches and the integer factorization methods are provided Chapter 5 is devoted to GGH and NTRU public key cryptosystems GGH and NTRU digital signature algorithms and the basic cryptanalysis approaches whereas Chapter 6 covers other topics including knapsack cryptosystems identity based public key cryptosystems identity based digital signature algorithms Goldwasser Micali probabilistic public key cryptosystem and their

cryptanalysis The book s distinctive features The book provides some fundamental mathematical and conceptual preliminaries required to understand the core parts of the book The book comprises the selected public key cryptosystems digital signature algorithms and the basic cryptanalysis approaches for these cryptosystems and algorithms The cryptographic algorithms and most of the solutions of the examples are provided in a structured table format to support easy learning The concepts and algorithms are illustrated with examples some of which are revisited multiple times to present alternative approaches The details of the topics covered in the book are intentionally not presented however several references are provided at the end of each chapter so that the reader can read those references for more details

Handbook of Numerical Analysis Philippe G. Ciarlet,Jacques-Louis Lions,1990 **High Primes and Misdemeanours** Hugh C. Williams,A. J. Van Der Poorten,Andreas Stein, This volume consists of a selection of papers based on presentations made at the international conference on number theory held in honor of Hugh Williams sixtieth birthday The papers address topics in the areas of computational and explicit number theory and its applications The material is suitable for graduate students and researchers interested in number theory Development of Elliptic Functions According to Ramanujan Shaun Cooper,2012 This unique book provides an innovative and efficient approach to elliptic functions based on the ideas of the great Indian mathematician Srinivasa Ramanujan The original 1988 monograph of K Venkatachaliengar has been completely revised Many details omitted from the original version have been included and the book has been made comprehensive by notes at the end of each chapter The book is for graduate students and researchers in Number Theory and Classical Analysis as well for scholars and aficionados of Ramanujan s work It can be read by anyone with some undergraduate knowledge of real and complex analysis **Mathematics of Computation 1943-1993: A Half-Century of Computational Mathematics** Walter Gautschi,1994 Proceedings of an International Conference held in Vancouver B C August 1993 to commemorate the 50th anniversary of the founding of the journal Mathematics of Computation It consisted of a Symposium on Numerical Analysis and a Minisymposium of Computational Number Theory This proceedings contains 14 invited papers including two not presented at the conference an historical essay on integer factorization and a paper on componentwise perturbation bounds in linear algebra The invited papers present surveys on the various subdisciplines covered by Mathematics of Computation in a historical perspective and in a language accessible to a wide audience The 46 contributed papers address contemporary specialized work Annotation copyright by Book News Inc Portland OR **An Introduction to Computational Stochastic PDEs** Gabriel J. Lord,Catherine E. Powell,Tony Shardlow,2014-08-11 This book gives a comprehensive introduction to numerical methods and analysis of stochastic processes random fields and stochastic differential equations and offers graduate students and researchers powerful tools for understanding uncertainty quantification for risk analysis Coverage includes traditional stochastic ODEs with white noise forcing strong and weak approximation and the multi level Monte Carlo method Later chapters apply the theory of random fields to the numerical

solution of elliptic PDEs with correlated random data discuss the Monte Carlo method and introduce stochastic Galerkin finite element methods Finally stochastic parabolic PDEs are developed Assuming little previous exposure to probability and statistics theory is developed in tandem with state of the art computational methods through worked examples exercises theorems and proofs The set of MATLAB codes included and downloadable allows readers to perform computations themselves and solve the test problems discussed Practical examples are drawn from finance mathematical biology neuroscience fluid flow modelling and materials science **Theta functions, elliptic functions and π** Heng Huat Chan,2020-07-06 This book presents several results on elliptic functions and Pi using Jacobi s triple product identity as a tool to show suprising connections between different topics within number theory such as theta functions Eisenstein series the Dedekind delta function and Ramanujan s work on Pi The included exercises make it ideal for both classroom use and self study Computational Arithmetic Geometry Kristin Estella Lauter,2008 With the recent increase in available computing power new computations are possible in many areas of arithmetic geometry To name just a few examples Cremona s tables of elliptic curves now go up to conductor 120 000 instead of just conductor 1 000 tables of Hilbert class fields are known for discriminant up to at least 5 000 and special values of Hilbert and Siegel modular forms can be calculated to extremely high precision In many cases these experimental capabilities haveled to new observations and ideas for progress in the field They have also led to natural algorithmic questions on the feasibility and efficiency of many computations especially for the purpose of applications in cryptography The AMS Special Session on Computational Arithmetic Geometry held onApril 29 30 2006 in San Francisco CA gathered together many of the people currently working on the computational and algorithmic aspects of arithmetic geometry This volume contains research articles related to talks given at the session The majority of articles are devoted to various aspects of arithmetic geometry mainly with a computational approach **Advanced Mathematical Methods with Maple** Derek Richards,2002 A user friendly student guide to computer assisted algebra with mathematical software packages such as Maple

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company said. "Auto neutral and Paver Assist mark the latest ... The automated transmission that improved driver comfort The I-Shift automated manual transmission improved fuel efficiency and driver comfort. The first Volvo truck ever sold – the Series 1 in 1928 – had features ...