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TEXTS IN APPLIED MATHEMATICS

Nodal Discontinuous Galerkin Methods

Algorithms, Analysis, and Applications

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Nodal Discontinuous Galerkin Methods Jan S. Hesthaven,Tim Warburton,2007-12-18 This book offers an introduction to the key ideas basic analysis and efficient implementation of discontinuous Galerkin finite element methods DG FEM for the solution of partial differential equations It covers all key theoretical results including an overview of relevant results from approximation theory convergence theory for numerical PDE s and orthogonal polynomials Through embedded Matlab codes coverage discusses and implements the algorithms for a number of classic systems of PDE s Maxwell s equations Euler equations incompressible Navier Stokes equations and Poisson and Helmholtz equations **Nodal Discontinuous Galerkin Methods** Jan S. Hesthaven,Tim Warburton,2010-11-23 This book offers an introduction to the key ideas basic analysis and efficient implementation of discontinuous Galerkin finite element methods DG FEM for the solution of partial differential equations It covers all key theoretical results including an overview of relevant results from approximation theory convergence theory for numerical PDE s and orthogonal polynomials Through embedded Matlab codes coverage discusses and implements the algorithms for a number of classic systems of PDE s Maxwell s equations Euler equations incompressible Navier Stokes equations and Poisson and Helmholtz equations **Mathematical Aspects of Discontinuous Galerkin Methods** Daniele Antonio Di Pietro,Alexandre Ern,2011-11-03 This book introduces the basic ideas to build discontinuous Galerkin methods and at the same time incorporates several recent mathematical developments The presentation is to a large extent self contained and is intended for graduate students and researchers in numerical analysis The material covers a wide range of model problems both steady and unsteady elaborating from advection reaction and diffusion problems up to the Navier Stokes equations and Friedrichs systems Both finite element and finite volume viewpoints are exploited to convey the main ideas underlying the design of the approximation The analysis is presented in a rigorous mathematical setting where discrete counterparts of the key properties of the continuous problem are identified The framework encompasses fairly general meshes regarding element shapes and hanging nodes Salient implementation issues are also addressed

Theory, Numerics and Applications of Hyperbolic Problems II Christian Klingenberg,Michael Westdickenberg,2018-06-27 The second of two volumes this edited proceedings book features research presented at the XVI International Conference on Hyperbolic Problems held in Aachen Germany in summer 2016 It focuses on the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models PDEs of mixed type kinetic equations nonlocal or and discrete models found in the field of applied sciences *Discontinuous Galerkin Method* Vít Dolejší,Miloslav Feistauer,2015-07-17 The subject of the book is the mathematical theory of the discontinuous Galerkin method DGM which is a relatively new technique for the numerical solution of partial differential equations The book is concerned with the DGM developed for elliptic and parabolic equations and its applications to the numerical simulation of compressible flow It deals with the

theoretical as well as practical aspects of the DGM and treats the basic concepts and ideas of the DGM as well as the latest significant findings and achievements in this area The main benefit for readers and the book s uniqueness lie in the fact that it is sufficiently detailed extensive and mathematically precise while at the same time providing a comprehensible guide through a wide spectrum of discontinuous Galerkin techniques and a survey of the latest efficient accurate and robust discontinuous Galerkin schemes for the solution of compressible flow   *Advanced Finite Element Methods and Applications* Thomas Apel,Olaf Steinbach,2012-07-16 This volume on some recent aspects of finite element methods and their applications is dedicated to Ulrich Langer and Arnd Meyer on the occasion of their 60th birthdays in 2012 Their work combines the numerical analysis of finite element algorithms their efficient implementation on state of the art hardware architectures and the collaboration with engineers and practitioners In this spirit this volume contains contributions of former students and collaborators indicating the broad range of their interests in the theory and application of finite element methods Topics cover the analysis of domain decomposition and multilevel methods including hp finite elements hybrid discontinuous Galerkin methods and the coupling of finite and boundary element methods the efficient solution of eigenvalue problems related to partial differential equations with applications in electrical engineering and optics and the solution of direct and inverse field problems in solid mechanics   Computational Fluid Dynamics Review 2010 M. M. Hafez,K?ichi ?shima,Dochan Kwak,2010 This volume contains 25 review articles by experts which provide up to date information about the recent progress in computational fluid dynamics CFD Due to the multidisciplinary nature of CFD it is difficult to keep up with all the important developments in related areas CFD Review 2010 would therefore be useful to researchers by covering the state of the art in this fast developing field   Handbook of Conformal Mappings and Applications Prem K. Kythe,2019-03-04 The subject of conformal mappings is a major part of geometric function theory that gained prominence after the publication of the Riemann mapping theorem for every simply connected domain of the extended complex plane there is a univalent and meromorphic function that maps such a domain conformally onto the unit disk The Handbook of Conformal Mappings and Applications is a compendium of at least all known conformal maps to date with diagrams and description and all possible applications in different scientific disciplines such as fluid flows heat transfer acoustics electromagnetic fields as static fields in electricity and magnetism various mathematical models and methods including solutions of certain integral equations   *Development of the Discontinuous Galerkin Method for High-resolution, Large Scale CFD and Acoustics in Industrial Geometries* Koen Hillewaert,2013-02-10 The main objective of this work is the practical development of the discontinuous Galerkin method arguably the most mature high order discretisation for the scale resolving simulations of turbomachinery flows   **Advanced Modelling with the MATLAB Reservoir Simulation Toolbox** Knut-Andreas Lie,Olav Møyner,2021-11-25 Presents advanced reservoir simulation methods used in the widely used MRST open source software for researchers professionals students   *Numerical Methods and Analysis of Multiscale Problems* Alexandre L.

Madureira,2017-02-15 This book is about numerical modeling of multiscale problems and introduces several asymptotic analysis and numerical techniques which are necessary for a proper approximation of equations that depend on different physical scales Aimed at advanced undergraduate and graduate students in mathematics engineering and physics or researchers seeking a no nonsense approach it discusses examples in their simplest possible settings removing mathematical hurdles that might hinder a clear understanding of the methods The problems considered are given by singular perturbed reaction advection diffusion equations in one and two dimensional domains partial differential equations in domains with rough boundaries and equations with oscillatory coefficients This work shows how asymptotic analysis can be used to develop and analyze models and numerical methods that are robust and work well for a wide range of parameters

Approximation Algorithms for Complex Systems Emmanuil H Georgoulis,Armin Iske,Jeremy Levesley,2011-01-04 This book collects up to date papers from world experts in a broad variety of relevant applications of approximation theory including dynamical systems multiscale modelling of fluid flow metrology and geometric modelling to mention a few The 14 papers in this volume document modern trends in approximation through recent theoretical developments important computational aspects and multidisciplinary applications The book is arranged in seven invited surveys followed by seven contributed research papers The surveys of the first seven chapters are addressing the following relevant topics emergent behaviour in large electrical networks algorithms for multivariate piecewise constant approximation anisotropic triangulation methods in adaptive image approximation form assessment in coordinate metrology discontinuous Galerkin methods for linear problems a numerical analyst s view of the lattice Boltzmann method approximation of probability measures on manifolds Moreover the diverse contributed papers of the remaining seven chapters reflect recent developments in approximation theory approximation practice and their applications Graduate students who wish to discover the state of the art in a number of important directions of approximation algorithms will find this a valuable volume Established researchers from statisticians through to fluid modellers will find interesting new approaches to solving familiar but challenging problems This book grew out of the sixth in the conference series on Algorithms for Approximation which took place from 31st August to September 4th 2009 in Ambleside in the Lake District of the United Kingdom *Mathematics of Wave Phenomena* Willy Dörfler,Marlis Hochbruck,Dirk Hundertmark,Wolfgang Reichel,Andreas Rieder,Roland Schnaubelt,Birgit Schörkhuber,2020-10-01 Wave phenomena are ubiquitous in nature Their mathematical modeling simulation and analysis lead to fascinating and challenging problems in both analysis and numerical mathematics These challenges and their impact on significant applications have inspired major results and methods about wave type equations in both fields of mathematics The Conference on Mathematics of Wave Phenomena 2018 held in Karlsruhe Germany was devoted to these topics and attracted internationally renowned experts from a broad range of fields These conference proceedings present new ideas results and techniques from this exciting research area **A high-order discontinuous Galerkin method for unsteady**

compressible flows with immersed boundaries Stephan Krämer-Eis,2017-10-20 Um die komplexe Physik in kompressiblen Str mungen genauer zu verstehen kommen vermehrt Simulationen zum Einsatz Jedoch k nnen weit verbreitete kommerzielle Softwarepakete die Physik aufgrund ihrer niedrigen Genauigkeit oft nicht korrekt erfassen In dieser Arbeit wird eine diskontinuierliche Galerkin Methode mit hoher Ordnung entwickelt welche eine hohe Genauigkeit erzielt Dabei werden insbesondere zwei Probleme die im Kontext von Verfahren mit hoher Ordnung auftreten behandelt Zum einen wird die Gittergenerierung durch das Verwenden einer Immersed Boundary Methode deutlich vereinfacht Dies bedeutet dass die Problemgeometrie aus einem deutlich einfacheren Hintergrundgitter herausgeschnitten wird Die Geometrie wird mit Hilfe einer Level Set Funktion dargestellt und die Integration auf den entstehenden geschnittenen Zellen wird mittels einer hierarchischen Moment Fitting Quadratur durchgef hrt Das Problem der sehr kleinen oder stark gekr mmten Zellen wird durch Zellagglomeration gel st Zum zweiten wird die starke Zeitschrittbeschr nkung durch anisotrope Gitter mit Hilfe eines lokalen Zeitschrittverfahrens behoben Diverse numerische Experimente best tigen die hohe Genauigkeit Effizienz und geometrische Flexibilit t der vorgestellten Methode **Design Methods for Reducing Failure Probabilities with Examples from Electrical Engineering** Mona Fuhrländer,2023-08-28 This book deals with efficient estimation and optimization methods to improve the design of electrotechnical devices under uncertainty Uncertainties caused by manufacturing imperfections natural material variations or unpredictable environmental influences may lead in turn to deviations in operation This book describes two novel methods for yield or failure probability estimation Both are hybrid methods that combine the accuracy of Monte Carlo with the efficiency of surrogate models The SC Hybrid approach uses stochastic collocation and adjoint error indicators The non intrusive GPR Hybrid approach consists of a Gaussian process regression that allows surrogate model updates on the fly Furthermore the book proposes an adaptive Newton Monte Carlo Newton MC method for efficient yield optimization In turn to solve optimization problems with mixed gradient information two novel Hermite type optimization methods are described All the proposed methods have been numerically evaluated on two benchmark problems such as a rectangular waveguide and a permanent magnet synchronous machine Results showed that the new methods can significantly reduce the computational effort of yield estimation and of single and multi objective yield optimization under uncertainty All in all this book presents novel strategies for quantification of uncertainty and optimization under uncertainty with practical details to improve the design of electrotechnical devices yet the methods can be used for any design process affected by uncertainties hp-Version Discontinuous Galerkin Methods on Polygonal and Polyhedral Meshes Andrea Cangiani,Zhaonan Dong,Emmanuil H. Georgoulis,Paul Houston,2017-11-27 Over the last few decades discontinuous Galerkin finite element methods DGFEMs have been witnessed tremendous interest as a computational framework for the numerical solution of partial differential equations Their success is due to their extreme versatility in the design of the underlying meshes and local basis functions while retaining key features of both classical finite

element and finite volume methods Somewhat surprisingly DGFEMs on general tessellations consisting of polygonal in 2D or polyhedral in 3D element shapes have received little attention within the literature despite the potential computational advantages This volume introduces the basic principles of hp version i e locally varying mesh size and polynomial order DGFEMs over meshes consisting of polygonal or polyhedral element shapes presents their error analysis and includes an extensive collection of numerical experiments The extreme flexibility provided by the locally variable elemen t shapes element sizes and element orders is shown to deliver substantial computational gains in several practical scenarios   The Proceedings of 2022 International Conference on Wireless Power Transfer (ICWPT2022) Chengbin Ma,Yiming Zhang,Siqi Li,Lei Zhao,Ming Liu,Pengcheng Zhang,2023-03-22 This book includes original peer reviewed research papers from the 2022 International Conference on Wireless Power Transfer ICWPT2022 held in Chongqing China The topics covered include but are not limited to wireless power transfer technology and systems coupling mechanism and electromagnetic field of wireless power transfer systems latest developments in wireless power transfer system and wide applications The papers share the latest findings in the field of wireless power transfer making the book a valuable asset for researchers engineers university students etc   **Parallel Computing: Accelerating Computational Science and Engineering (CSE)** M. Bader,A. Bode,H.-J. Bungartz,2014-03-31 Parallel computing has been the enabling technology of high end machines for many years Now it has finally become the ubiquitous key to the efficient use of any kind of multi processor computer architecture from smart phones tablets embedded systems and cloud computing up to exascale computers _x000D_ This book presents the proceedings of ParCo2013 the latest edition of the biennial International Conference on Parallel Computing held from 10 to 13 September 2013 in Garching Germany The conference focused on several key parallel computing areas Themes included parallel programming models for multi and manycore CPUs GPUs FPGAs and heterogeneous platforms the performance engineering processes that must be adapted to efficiently use these new and innovative platforms novel numerical algorithms and approaches to large scale simulations of problems in science and engineering _x000D_ The conference programme also included twelve mini symposia including an industry session and a special PhD Symposium which comprehensively represented and intensified the discussion of current hot topics in high performance and parallel computing These special sessions covered large scale supercomputing novel challenges arising from parallel architectures multi manycore heterogeneous platforms FPGAs multi level algorithms as well as multi scale multi physics and multi dimensional problems _x000D_ It is clear that parallel computing including the processing of large data sets Big Data will remain a persistent driver of research in all fields of innovative computing which makes this book relevant to all those with an interest in this field   **Navier-stokes Equations In Planar Domains** Matania Ben-artzi,Jean Pierre Croisille,Dalia Fishelov,2013-03-07 This volume deals with the classical Navier Stokes system of equations governing the planar flow of incompressible viscid fluid It is a first of its kind book devoted to all aspects of the study of such flows ranging from theoretical to numerical including

detailed accounts of classical test problems such as driven cavity and double driven cavity A comprehensive treatment of the mathematical theory developed in the last 15 years is elaborated heretofore never presented in other books It gives a detailed account of the modern compact schemes based on a pure streamfunction approach In particular a complete proof of convergence is given for the full nonlinear problem This volume aims to present a variety of numerical test problems It is therefore well positioned as a reference for both theoretical and applied mathematicians as well as a text that can be used by graduate students pursuing studies in pure or applied mathematics fluid dynamics and mathematical physics a *Frontiers in PDE-Constrained Optimization* Harbir Antil,Drew P. Kouri,Martin-D. Lacasse,Denis Ridzal,2018-10-12 This volume provides a broad and uniform introduction of PDE constrained optimization as well as to document a number of interesting and challenging applications Many science and engineering applications necessitate the solution of optimization problems constrained by physical laws that are described by systems of partial differential equations PDEs As a result PDE constrained optimization problems arise in a variety of disciplines including geophysics earth and climate science material science chemical and mechanical engineering medical imaging and physics This volume is divided into two parts The first part provides a comprehensive treatment of PDE constrained optimization including discussions of problems constrained by PDEs with uncertain inputs and problems constrained by variational inequalities Special emphasis is placed on algorithm development and numerical computation In addition a comprehensive treatment of inverse problems arising in the oil and gas industry is provided The second part of this volume focuses on the application of PDE constrained optimization including problems in optimal control optimal design and inverse problems among other topics

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