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Numerical Tools for Isogeometric Analysis

Numerical Tools For Isogeometric Analysis

Konstantin Naumenko,Marcus Aßmus

Numerical Tools For Isogeometric Analysis:

Isogeometric Methods for Numerical Simulation Gernot Beer,Stéphane Bordas,2015-01-29 The book presents the state of the art in isogeometric modeling and shows how the method has advantaged First an introduction to geometric modeling with NURBS and T splines is given followed by the implementation into computer software The implementation in both the FEM and BEM is discussed *Numerical Methods and Applications* Ivan Dimov,Stefka Fidanova,Ivan Lirkov,2015-02-03 This book constitutes the thoroughly refereed post conference proceedings of the 8th International Conference on Numerical Methods and Applications NMA 2014 held in Borovets Bulgaria in August 2014 The 34 revised full papers presented were carefully reviewed and selected from 56 submissions for inclusion in this book The papers are organized in the following topical sections Monte Carlo and quasi Monte Carlo methods metaheuristics for optimization problems advanced numerical methods for scientific computing advanced numerical techniques for PDEs and applications solving large engineering and scientific problems with advanced mathematical models numerical simulations and back analysis in civil and mechanical engineering Numerical Methods for PDEs Daniele Antonio Di Pietro,Alexandre Ern,Luca Formaggia,2018-10-12 This volume gathers contributions from participants of the Introductory School and the IHP thematic quarter on Numerical Methods for PDE held in 2016 in Cargese Corsica and Paris providing an opportunity to disseminate the latest results and envisage fresh challenges in traditional and new application fields Numerical analysis applied to the approximate solution of PDEs is a key discipline in applied mathematics and over the last few years several new paradigms have appeared leading to entire new families of discretization methods and solution algorithms This book is intended for researchers in the field

Isogeometric Analysis For Engineers Via Matlab John Edward Akin,2024-11-12 This unique compendium approaches the relatively new Isogeometric Analysis IGA methods at senior undergraduates level in engineering or applied mathematics It describes the differences between the well established Finite Element Analysis FEA methods and why they are being replaced or enhanced by the latest developments in IGA The book begins with summaries of the concepts of B splines NURBS and knot vectors which define them as exact representations of the geometry and as powerful analysis functions having higher continuity than the FEA use of Lagrange polynomials The useful reference text includes Appendices with Matlab scripts for creating B spline basis functions topics in computer aided geometric design CAGD from which IGA arose and matrix operations common to IGA and FEA It also informs FEA users of the enhancements offered by IGA Numerical Methods in Turbulence Simulation Robert Moser,2022-11-30 Numerical Methods in Turbulence Simulation provides detailed specifications of the numerical methods needed to solve important problems in turbulence simulation Numerical simulation of turbulent fluid flows is challenging because of the range of space and time scales that must be represented This book provides explanations of the numerical error and stability characteristics of numerical techniques along with treatments of the additional numerical challenges that arise in large eddy simulations Chapters are written as tutorials by experts in the

field covering specific both contexts and applications Three classes of turbulent flow are addressed including incompressible compressible and reactive with a wide range of the best numerical practices covered A thorough introduction to the numerical methods is provided for those without a background in turbulence as is everything needed for a thorough understanding of the fundamental equations The small scales that must be resolved are generally not localized around some distinct small scale feature but instead are distributed throughout a volume These characteristics put particular strain on the numerical methods used to simulate turbulent flows Includes a detailed review of the numerical approximation issues that impact the simulation of turbulence Provides a range of examples of large eddy simulation techniques Discusses the challenges posed by boundary conditions in turbulence simulation and provides approaches to addressing them *IGA: Non-conforming Coupling and Shape Optimization of Complex Multipatch Structures, Volume 1* Robin Bouclier,Thibaut Hirschler,2022-08-16 Isogeometric analysis IGA consists of using the same higher order and smooth spline functions for the representation of geometry in Computer Aided Design as for the approximation of solution fields in Finite Element Analysis Now about fifteen years after its creation substantial works are being reported in IGA which make it very competitive in scientific computing This book provides a contemporary vision of IGA by first discussing the current challenges in achieving a true bridge between design and analysis then proposing original solutions that answer the issues from an analytical point of view and eventually studying the shape optimization of structures which is one of the greatest applications of IGA To handle complex structures a full analysis to optimization framework is developed based on non invasive coupling parallel domain decomposition and immersed geometrical modeling This seems to be very robust taking on all of the attractive features of IGA the design analysis link numerical efficiency and natural regularization giving us the opportunity to explore new types of design **Discrete and Continuum Models for Complex Metamaterials** Francesco dell'Isola,David J. Steigmann,2020-03-12 Explores the relationship between discrete and continuum mechanics as a tool to model new and complex metamaterials Including a comprehensive bibliography and historical review of the field and a pedagogical mathematical treatment it is ideal for graduate students and researchers in mechanical and civil engineering and materials science Numerical Methods for Flows Harald van Brummelen,Alessandro Corsini,Simona Perotto,Gianluigi Rozza,2020-02-22 This book includes selected contributions on applied mathematics numerical analysis numerical simulation and scientific computing related to fluid mechanics problems presented at the FEF Finite Element for Flows conference held in Rome in spring 2017 Written by leading international experts and covering state of the art topics in numerical simulation for flows it provides fascinating insights into and perspectives on current and future methodological and numerical developments in computational science As such the book is a valuable resource for researchers as well as Masters and Ph D students **Tensor Numerical Methods in Scientific Computing** Boris N. Khoromskij,2018-06-11 The most difficult computational problems nowadays are those of higher dimensions This research monograph offers an introduction to tensor

numerical methods designed for the solution of the multidimensional problems in scientific computing These methods are based on the rank structured approximation of multivariate functions and operators by using the appropriate tensor formats The old and new rank structured tensor formats are investigated We discuss in detail the novel quantized tensor approximation method QTT which provides function operator calculus in higher dimensions in logarithmic complexity rendering super fast convolution FFT and wavelet transforms This book suggests the constructive recipes and computational schemes for a number of real life problems described by the multidimensional partial differential equations We present the theory and algorithms for the sinc based separable approximation of the analytic radial basis functions including Green s and Helmholtz kernels The efficient tensor based techniques for computational problems in electronic structure calculations and for the grid based evaluation of long range interaction potentials in multi particle systems are considered We also discuss the QTT numerical approach in many particle dynamics tensor techniques for stochastic parametric PDEs as well as for the solution and homogenization of the elliptic equations with highly oscillating coefficients Contents Theory on separable approximation of multivariate functions Multilinear algebra and nonlinear tensor approximation Superfast computations via quantized tensor approximation Tensor approach to multidimensional integrodifferential equations **Advanced Methods of Continuum Mechanics for Materials and Structures** Konstantin Naumenko,Marcus Aßmus,2016-05-12 This volume presents a collection of contributions on advanced approaches of continuum mechanics which were written to celebrate the 60th birthday of Prof Holm Altenbach The contributions are on topics related to the theoretical foundations for the analysis of rods shells and three dimensional solids formulation of constitutive models for advanced materials as well as development of new approaches to the modeling of damage and fractures Advanced Methods for Geometric Modeling and Numerical Simulation Carlotta Giannelli,Hendrik Speleers,2019-09-18 This book gathers selected contributions presented at the INdAM Workshop DREAMS held in Rome Italy on January 22 26 2018 Addressing cutting edge research topics and advances in computer aided geometric design and isogeometric analysis it covers distinguishing curve surface constructions and spline models with a special focus on emerging adaptive spline constructions fundamental spline theory and related algorithms as well as various aspects of isogeometric methods e g efficient quadrature rules and spectral analysis for isogeometric B spline discretizations Applications in finite element and boundary element methods are also discussed Given its scope the book will be of interest to both researchers and graduate students working in these areas *Advanced Numerical Methods in Applied Sciences* Luigi Brugnano,Felice Iavernaro,2019-06-20 The use of scientific computing tools is currently customary for solving problems at several complexity levels in Applied Sciences The great need for reliable software in the scientific community conveys a continuous stimulus to develop new and better performing numerical methods that are able to grasp the particular features of the problem at hand This has been the case for many different settings of numerical analysis and this Special Issue aims at covering some important developments in various areas of application **Modeling of Resistivity and**

Acoustic Borehole Logging Measurements Using Finite Element Methods David Pardo,Paweł J. Matuszyk,Vladimir Puzyrev,Carlos Torres-Verdin,Myung Jin Nam,Victor M. Calo,2021-05-22 Modeling of Resistivity and Acoustic Borehole Logging Measurements Using Finite Element Methods provides a comprehensive review of different resistivity and sonic logging instruments used within the oil industry along with precise and solid mathematical descriptions of the physical equations and corresponding FE formulations that govern these measurements Additionally the book emphasizes the main modeling considerations that one needs to incorporate into the simulations in order to obtain reliable and accurate results Essentially the formulations and methods described here can also be applied to simulate on surface geophysical measurements such as seismic or marine controlled source electromagnetic CSEM measurements Simulation results obtained using FE methods are superior FE methods employ a mathematical terminology based on FE spaces that facilitate the design of sophisticated formulations and implementations according to the specifics of each problem This mathematical FE framework provides a highly accurate robust and flexible unified environment for the solution of multi physics problems Thus readers will benefit from this resource by learning how to make a variety of logging simulations using a unified FE framework Provides a complete and unified finite element approach to perform borehole sonic and electromagnetic simulations Includes the latest research in mathematical and implementation content on Finite Element simulations of borehole logging measurements Features a variety of unique simulations and numerical examples that allow the reader to easily learn the main features and limitations that appear when simulating borehole resistivity measurements   Contact Modeling for Solids and Particles Alexander Popp,Peter Wriggers,2018-05-19 The book conveys modern techniques and the latest state of the art with regard to the most fundamental aspects of computational contact mechanics However since contact can readily be interpreted as a special type of interface problem it seems advisable not to isolate contact mechanics but rather to address it in the context of a broader class of problems denoted as computational interface mechanics The book gives a clear understanding of the underlying physics of interfaces and a comprehensive insight into the current state of the art and selected cutting edge research directions in the computational treatment of interface effects It focuses on the modeling of friction wear lubrication cohesive interfaces grain boundaries phase boundaries fracture thermo mechanics and particulate contact e g granular media Also the most important computational aspects are addressed including discretization techniques for finite deformations solution algorithms for single and multi processor computing environments multi scale approaches discrete element models and multi physics problems including contact and interface constraints Among the computational techniques covered in this book are finite element FEM and boundary element BEM methods atomistic models molecular dynamics MD discrete element methods DEM coupling approaches for multi scale simulations and tools for an efficient automated FEM code generation   **Nonlinear Finite Element Analysis of Solids and Structures** René de Borst,Mike A. Crisfield,Joris J. C. Remmers,Clemens V. Verhoosel,2012-07-25 Built upon the two original books by Mike

Crisfield and their own lecture notes renowned scientist Ren de Borst and his team offer a thoroughly updated yet condensed edition that retains and builds upon the excellent reputation and appeal amongst students and engineers alike for which Crisfield s first edition is acclaimed Together with numerous additions and updates the new authors have retained the core content of the original publication while bringing an improved focus on new developments and ideas This edition offers the latest insights in non linear finite element technology including non linear solution strategies computational plasticity damage mechanics time dependent effects hyperelasticity and large strain elasto plasticity The authors integrated and consistent style and unrivalled engineering approach assures this book s unique position within the computational mechanics literature Key features Combines the two previous volumes into one heavily revised text with obsolete material removed an improved layout and updated references and notations Extensive new material on more recent developments in computational mechanics Easily readable engineering oriented with no more details in the main text than necessary to understand the concepts Pseudo code throughout makes the link between theory and algorithms and the actual implementation Accompanied by a website www wiley com go deborst with a Python code based on the pseudo code within the book and suitable for solving small size problems Non linear Finite Element Analysis of Solids and Structures 2nd Edition is an essential reference for practising engineers and researchers that can also be used as a text for undergraduate and graduate students within computational mechanics **Advances In Computational Coupling And Contact Mechanics** Luis Rodriguez-tembleque,M H Ferri Aliabadi,2018-04-20 This book presents recent advances in the field of computational coupling and contact mechanics with particular emphasis on numerical formulations and methodologies necessary to solve advanced engineering applications Featuring contributions from leading experts and active researchers in these fields who provide a detailed overview of different modern numerical schemes that can be considered by main numerical methodologies to simulate interaction problems in continuum mechanics A number of topics are addressed including formulations based on the finite element method FEM and their variants e g isogeometric analysis or standard and generalized high order FEM hp FEM and GFEM respectively the boundary element method BEM the material point method MPM or the recently proposed finite block method FBM among many more Written with PhD students in mind Advances in Computational Coupling and Contact Mechanics also includes the most recent numerical techniques which could be served as reference material for researchers and practicing engineers All chapters are self contained and can be read independently with numerical formulations accompanied by practical engineering applications Related Link s *MARINE 2011, IV International Conference on Computational Methods in Marine Engineering* Luís Eça,Eugenio Oñate,Julio García-Espinosa,Trond Kvamsdal,Pål Bergan,2013-03-19 This book contains selected papers from the Fourth International Conference on Computational Methods in Marine Engineering held at Instituto Superior T cnico Technical University of Lisbon Portugal in September 2011 Nowadays computational methods are an essential tool of engineering which includes a major field of

interest in marine applications such as the maritime and offshore industries and engineering challenges related to the marine environment and renewable energies The 2011 Conference included 8 invited plenary lectures and 86 presentations distributed through 10 thematic sessions that covered many of the most relevant topics of marine engineering today This book contains 16 selected papers from the Conference that cover CFD for Offshore Applications Fluid Structure Interaction Isogeometric Methods for Marine Engineering Marine Offshore Renewable Energy Maneuvering and Seakeeping Propulsion and Cavitation and Ship Hydrodynamics The papers were selected with the help of the recognized experts that collaborated in the organization of the thematic sessions of the Conference which guarantees the high quality of the papers included in this book   Frontiers in Computational Fluid-Structure Interaction and Flow Simulation Tayfun E. Tezduyar,2018-10-26 Computational fluid structure interaction and flow simulation are challenging research areas that bring solution and analysis to many classes of problems in science engineering and technology Young investigators under the age of 40 are conducting much of the frontier research in these areas some of which is highlighted in this book The first author of each chapter took the lead role in carrying out the research presented The topics covered include Computational aerodynamic and FSI analysis of wind turbines Simulating free surface FSI and fatigue damage in wind turbine structural systems Aorta flow analysis and heart valve flow and structure analysis Interaction of multiphase fluids and solid structures Computational analysis of tire aerodynamics with actual geometry and road contact and A general purpose NURBS mesh generation method for complex geometries This book will be a valuable resource for early career researchers and students not only those interested in computational fluid structure interaction and flow simulation but also other fields of engineering and science including fluid mechanics solid mechanics and computational mathematics as it will provide them with inspiration and guidance for conducting their own successful research It will also be of interest to senior researchers looking to learn more about successful research led by those under 40 and possibly offer collaboration to these researchers   **IGA: Non-Invasive Coupling with FEM and Regularization of Digital Image Correlation Problems, Volume 2** Robin Bouclier,Jean-Charles Passieux,2023-08-22 Isogeometric analysis IGA consists of using the same higher order and smooth spline functions for the representation of geometry in Computer Aided Design as for the approximation of solution fields in Finite Element Analysis Now almost twenty years after its creation substantial works are being reported in IGA making it very competitive in scientific computing This book proposes to use IGA jointly with standard finite element methods FEM presenting IGA as a projection of FEM on a more regular reduced basis By shedding new light on how IGA relates to FEM we can see how IGA can be implemented on top of an FE code in order to improve the solution of problems that require more regularity This is illustrated by using IGA with FEM in a non invasive fashion to perform efficient and robust multiscale global local simulations in solid mechanics Furthermore we show that IGA can regularize the inverse problem of FE digital image correlation in experimental mechanics   **Novel Finite Element Technologies for Solids and Structures** Jörg

Schröder,Paulo de Mattos Pimenta,2019-11-26 This book presents new ideas in the framework of novel finite element discretization schemes for solids and structure focusing on the mechanical as well as the mathematical background It also explores the implementation and automation aspects of these technologies Furthermore the authors highlight recent developments in mixed finite element formulations in solid mechanics as well as novel techniques for flexible structures at finite deformations The book also describes automation processes and the application of automatic differentiation technique including characteristic problems automatic code generation and code optimization The combination of these approaches leads to highly efficient numerical codes which are fundamental for reliable simulations of complicated engineering problems These techniques are used in a wide range of applications from elasticity viscoelasticity plasticity and viscoplasticity in classical engineering disciplines such as civil and mechanical engineering as well as in modern branches like biomechanics and multiphysics

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