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Isogeometric Methods for Numerical Simulation



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**Ivan Giorgio, Luca Placidi, Emilio
Barchiesi, Bilen Emek Abali, Holm
Altenbach**

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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 Advanced Numerical Simulation Methods Gernot Beer, 2015-07-27 This entertaining introduction to advanced numerical modeling aims to lead the reader on a journey towards the holy grail of numerical simulation i e one without the requirement of mesh generation that takes data directly from CAD programs This hands on book emphasizes implementation and examples of programming in a higher level language are given Written for users of simulation software so they can understand the benefits of this new technology and demand progress from a somewhat conservative industry Written for software developers so they can see that this is a technology with a big future and written for researchers in the hope that it will attract more people to work in this field *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 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

Theoretical Analyses, Computations, and Experiments of Multiscale Materials Ivan Giorgio, Luca Placidi, Emilio Barchiesi, Bilen Emek Abali, Holm Altenbach, 2022-05-03 This book is devoted to the 60th birthday of the Prof Francesco dell'Isola who is known for his long term contribution in the field of multiscale materials It contains several contributions from researchers in the field covering theoretical analyses computational aspects and experiments

Efficient High-Order Discretizations for Computational Fluid Dynamics Martin Kronbichler, Per-Olof Persson, 2021-01-04 The book introduces modern high order methods for computational fluid dynamics As compared to low order finite volumes predominant in today's production codes higher order discretizations significantly reduce dispersion errors the main source of error in long time simulations of flow at higher Reynolds numbers A major goal of this book is to teach the basics of the discontinuous Galerkin DG method in terms of its finite volume and finite element ingredients It also discusses the computational efficiency of high order methods versus state of the art low order methods in the finite difference context given that accuracy requirements in engineering are often not overly strict The book mainly addresses researchers and doctoral students in engineering applied mathematics physics and high performance computing with a strong interest in the interdisciplinary aspects of computational fluid dynamics It is also well suited for practicing computational engineers who would like to gain an overview of discontinuous Galerkin methods modern algorithmic realizations and high performance implementations

Proceedings of 8th GACM Colloquium on Computational Mechanics Tobias Gleim, Stephan Lange, 2019-09-04 This conference book contains papers presented at the 8th GACM Colloquium on Computational Mechanics for Young Scientists from Academia and Industry The conference was held from August 28th 30th 2019 in Kassel hosted by the Institute of Mechanics and Dynamics of the department for civil and environmental engineering and by the chair of Engineering Mechanics Continuum Mechanics of the department for mechanical engineering of the University of Kassel The aim of the conference is to bring together young scientists who are engaged in academic and industrial research on Computational Mechanics and Computer Methods in Applied Sciences It provides a platform to present and discuss recent results from research efforts and industrial applications In more than 150 presentations given by young scientists current scientific developments and advances in engineering practice in this field are presented and discussed The contributions of the young researchers are supplemented by a poster session and plenary talks from four senior scientists from academia and industry as well as from the GACM Best PhD Award winners 2017 and 2018

Higher Gradient Materials and Related Generalized Continua Holm Altenbach, Wolfgang H. Müller, Bilen Emek Abali, 2019-11-04 This book discusses recent findings and advanced theories presented at two workshops at TU Berlin in 2017 and 2018 It underlines several advantages of generalized continuum

models compared to the classical Cauchy continuum which although widely used in engineering practice has a number of limitations such as The structural size is very small The microstructure is complex The effects are localized As such the development of generalized continuum models is helpful and results in a better description of the behavior of structures or materials At the same time there are more and more experimental studies supporting the new models because the number of material parameters is higher

Contributions to Advanced Dynamics and Continuum Mechanics Holm Altenbach,Hans Irschik,Valery P. Matveenko,2019-05-31 The book celebrates the 65th birthday of Prof Alexander K Belyaev a well known expert in the field of Dynamics of Mechanical Systems In addition to reflecting Prof Belyaev s contributions the papers gathered here address a range of current problems in Dynamics and Continuum Mechanics All contributions were prepared by his friends and colleagues and chiefly focus on theory and applications

Isogeometric Analysis and Applications 2018 Harald van Brummelen,Cornelis Vuik,Matthias Möller,Clemens Verhoosel,Bernd Simeon,Bert Jüttler,2021-01-13 This proceedings volume gathers a selection of outstanding research papers presented at the third Conference on Isogeometric Analysis and Applications held in Delft The Netherlands in April 2018 This conference series previously held in Linz Austria in 2012 and Annweiler am Trifels Germany in 2014 has created an international forum for interaction between scientists and practitioners working in this rapidly developing field Isogeometric analysis is a groundbreaking computational approach that aims to bridge the gap between numerical analysis and computational geometry modeling by integrating the finite element method and related numerical simulation techniques into the computer aided design workflow and vice versa The methodology has matured over the last decade both in terms of our theoretical understanding its mathematical foundation and the robustness and efficiency of its practical implementations This development has enabled scientists and practitioners to tackle challenging new applications at the frontiers of research in science and engineering and attracted early adopters for this his novel computer aided design and engineering technology in industry The IGAA 2018 conference brought together experts on isogeometric analysis theory and application share their insights into challenging industrial applications and to discuss the latest developments as well as the directions of future research and development that are required to make isogeometric analysis an established mainstream technology

Isogeometric Analysis and Applications 2014 Bert Jüttler,Bernd Simeon,2015-12-21 Isogeometric Analysis is a groundbreaking computational approach that promises the possibility of integrating the finite element method into conventional spline based CAD design tools It thus bridges the gap between numerical analysis and geometry and moreover it allows to tackle new cutting edge applications at the frontiers of research in science and engineering This proceedings volume contains a selection of outstanding research papers presented at the second International Workshop on Isogeometric Analysis and Applications held at Annweiler Germany in April 2014

Special Issue on Isogeometric Analysis: Progress and Challenges International Conference on Isogeometric Analysis,2017 **Isogeometric Analysis and Applications 2018** Harald van Brummelen,Cornelis Vuik,Matthias

Möller, Clemens Verhoosel, Bernd Simeon, Bert Jüttler, 2021 This proceedings volume gathers a selection of outstanding research papers presented at the third Conference on Isogeometric Analysis and Applications held in Delft The Netherlands in April 2018 This conference series previously held in Linz Austria in 2012 and Annweiler am Trifels Germany in 2014 has created an international forum for interaction between scientists and practitioners working in this rapidly developing field Isogeometric analysis is a groundbreaking computational approach that aims to bridge the gap between numerical analysis and computational geometry modeling by integrating the finite element method and related numerical simulation techniques into the computer aided design workflow and vice versa The methodology has matured over the last decade both in terms of our theoretical understanding its mathematical foundation and the robustness and efficiency of its practical implementations This development has enabled scientists and practitioners to tackle challenging new applications at the frontiers of research in science and engineering and attracted early adopters for this his novel computer aided design and engineering technology in industry The IGAA 2018 conference brought together experts on isogeometric analysis theory and application share their insights into challenging industrial applications and to discuss the latest developments as well as the directions of future research and development that are required to make isogeometric analysis an established mainstream technology

Enriched Numerical Techniques Azher Jameel, Ghulam Ashraf Ul Harmain, Indra Vir Singh, Magd Abdel Wahab, 2024-05-10 Enriched Numerical Techniques Implementation and Applications explores recent advances in enriched numerical techniques including the extended finite element method meshfree methods extended isogeometric analysis and coupled numerical techniques Techniques for implementation and programming issues are discussed with other sections discussing applications for enriched numerical techniques in solving a range of engineering problems The level set methodologies for complex shaped irregularities is presented as are enriched numerical methodologies for various complex and advanced problems such as Nonlinear Structural Analysis Fracture and Fatigue in Structures Elasto Plastic Crack Growth Large Deformation Analysis Frictional Contact Problems Thermo Mechanical Problems Fluid Flow Investigations Composite Materials and Bio mechanics *IGA 2015*, 2015

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