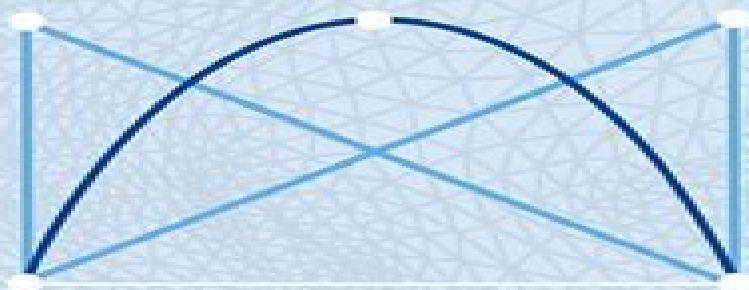


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TEXTBOOK

Peter Deufhard, Martin Weiser

ADAPTIVE NUMERICAL SOLUTION OF PDES



Adaptive Numerical Solution Of Pdes De Gruyter Textbook

Thomas Griffiths



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Adaptive Numerical Solution of PDEs Peter Deuflhard, Martin Weiser, 2012-08-31 This book deals with the general topic Numerical solution of partial differential equations PDEs with a focus on adaptivity of discretizations in space and time By and large introductory textbooks like Numerical Analysis in Modern Scientific Computing by Deuflhard and Hohmann should suffice as a prerequisite The emphasis lies on elliptic and parabolic systems Hyperbolic conservation laws are treated only on an elementary level excluding turbulence Numerical Analysis is clearly understood as part of Scientific Computing The focus is on the efficiency of algorithms i e speed reliability and robustness which directly leads to the concept of adaptivity in algorithms The theoretical derivation and analysis is kept as elementary as possible Nevertheless required somewhat more sophisticated mathematical theory is summarized in comprehensive form in an appendix Complex relations are explained by numerous figures and illustrating examples Non trivial problems from regenerative energy nanotechnology surgery and physiology are inserted The text will appeal to graduate students and researchers on the job in mathematics science and technology Conceptually it has been written as a textbook including exercises and a software list but at the same time it should be well suited for self study

Numerical Mathematics and Advanced Applications ENUMATH 2015 Bülent Karasözen, Murat Manguoğlu, Münevver Tezer-Sezgin, Serdar Göktepe, Ömür Uğur, 2016-11-09 The European Conference on Numerical Mathematics and Advanced Applications ENUMATH held every 2 years provides a forum for discussing recent advances in and aspects of numerical mathematics and scientific and industrial applications The previous ENUMATH meetings took place in Paris 1995 Heidelberg 1997 Jyväskylä 1999 Ischia 2001 Prague 2003 Santiago de Compostela 2005 Graz 2007 Uppsala 2009 Leicester 2011 and Lausanne 2013 This book presents a selection of invited and contributed lectures from the ENUMATH 2015 conference which was organised by the Institute of Applied Mathematics IAM Middle East Technical University Ankara Turkey from September 14 to 18 2015 It offers an overview of central recent developments in numerical analysis computational mathematics and applications in the form of contributions by leading experts in the field

Modeling and Simulation in Polymer Reaction Engineering Klaus-Dieter Hungenberg, Michael Wulkow, 2018-05-29 Introducing a unique modular approach to modeling polymerization reactions this useful book will enable practitioners chemists and engineers alike to set up and structure their own models for simulation software like Predici C MatLab or others The generic modules are exemplified for concrete situations for various reactor types and reaction mechanisms and allow readers to quickly find their own point of interest a highly useful information source for polymer engineers and researchers in industry and academia

Dimension Reduced Modeling of Blood Flow in Large Arteries Tobias Köppl, Rainer Helmig, 2023-07-15 This monograph contains an in depth and coherent treatment of dimension reduced modeling of blood flows on the level of large vessels macrocirculation The authors reduce the complexity by combining a one dimensional Navier Stokes equation and a simplified FSI concept The influence of omitted vessels which are subsequent to the outlets of

larger vessels is accounted for by systems of ordinary differential equations 0D models The target audience primarily comprises research experts in the field of biomedical engineering but the book may also be beneficial for graduate students alike

Numerische Mathematik 1 Peter Deufhard, Andreas Hohmann, 2018-12-17 Dieses Buch hat sich seit der zweiten Auflage zu einem vielbeachteten Klassiker im deutschsprachigen Raum entwickelt Wesentliche Konzepte der Numerik von Differentialgleichungen werden an einfacheren Problemen wie Drei Term Rekursionen oder numerische Quadratur dargestellt Neu hinzu gekommen in der 5 Auflage sind insbesondere aktuelle Forschungsergebnisse zur effizienten Polynominterpolation die auf Trefethen et al zur ckgehen

The Cumulative Book Index ,1998 A world list of books in the English language

BEM-based Finite Element Approaches on Polytopal Meshes Steffen Weißer, 2019-07-18 This book introduces readers to one of the first methods developed for the numerical treatment of boundary value problems on polygonal and polyhedral meshes which it subsequently analyzes and applies in various scenarios The BEM based finite element approaches employs implicitly defined trial functions which are treated locally by means of boundary integral equations A detailed construction of high order approximation spaces is discussed and applied to uniform adaptive and anisotropic polytopal meshes The main benefits of these general discretizations are the flexible handling they offer for meshes and their natural incorporation of hanging nodes This can especially be seen in adaptive finite element strategies and when anisotropic meshes are used Moreover this approach allows for problem adapted approximation spaces as presented for convection dominated diffusion equations All theoretical results and considerations discussed in the book are verified and illustrated by several numerical examples and experiments Given its scope the book will be of interest to mathematicians in the field of boundary value problems engineers with a mathematical background in finite element methods and advanced graduate students

American Book Publishing Record ,2003

Snapshot-Based Methods and Algorithms Peter Benner, et al., 2020-12-16 An increasing complexity of models used to predict real world systems leads to the need for algorithms to replace complex models with far simpler ones while preserving the accuracy of the predictions This two volume handbook covers methods as well as applications This second volume focuses on applications in engineering biomedical engineering computational physics and computer science

Inside Finite Elements Martin Weiser, 2016-05-10 All relevant implementation aspects of finite element methods are discussed in this book The focus is on algorithms and data structures as well as on their concrete implementation Theory is covered only as far as it gives insight into the construction of algorithms In the exercises a complete FE solver for stationary 2D problems is implemented in Matlab Octave Contents Finite Element Fundamentals Grids and Finite Elements Assembly Solvers Error Estimation Mesh Refinement Multigrid Elastomechanics Fluid Mechanics Grid Data Structure Function Reference

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