Robust Smoothers For High Order Discontinuous Galerkin

Hans-Joachim Bungartz,Severin Reiz,Benjamin Uekermann,Philipp Neumann,Wolfgang E. Nagel

Robust Smoothers For High Order Discontinuous Galerkin:

Adaptive High-order Methods in Computational Fluid Dynamics Z. J. Wang,2011 This book consists of important contributions by world renowned experts on adaptive high order methods in computational fluid dynamics CFD It covers several widely used and still intensively researched methods including the discontinuous Galerkin residual distribution finite volume differential quadrature spectral volume spectral difference PNPM and correction procedure via reconstruction methods The main focus is applications in aerospace engineering but the book should also be useful in many other engineering disciplines including mechanical chemical and electrical engineering Since many of these methods are still evolving the book will be an excellent reference for researchers and graduate students to gain an understanding of the state of the art and remaining challenges in high order CFD methods *Finite Volumes for Complex Applications VI Problems & Perspectives* Jaroslav Fořt,Jiří Fürst,Jan Halama,Raphaèle Herbin,Florence Hubert,2011-07-21 Finite volume methods are used for various applications in fluid dynamics magnetohydrodynamics structural analysis or nuclear physics A closer look reveals many interesting phenomena and mathematical or numerical difficulties such as true error analysis and adaptivity modelling of multi phase phenomena or fitting problems stiff terms in convection diffusion equations and sources To overcome existing problems and to find solution methods for future applications requires many efforts and always new developments The goal of The International Symposium on Finite Volumes for Complex Applications VI is to bring together mathematicians physicists and engineers dealing with Finite Volume Techniques in a wide context This book divided in two volumes brings a critical look at the subject new ideas limits or drawbacks of methods theoretical as well as applied topics

Software for Exascale Computing - SPPEXA 2016-2019 Hans-Joachim Bungartz,Severin Reiz,Benjamin Uekermann,Philipp Neumann,Wolfgang E. Nagel,2020-07-30 This open access book summarizes the research done and results obtained in the second funding phase of the Priority Program 1648 Software for Exascale Computing SPPEXA of the German Research Foundation DFG presented at the SPPEXA Symposium in Dresden during October 21 23 2019 In that respect it both represents a continuation of Vol 113 in Springer s series Lecture Notes in Computational Science and Engineering the corresponding report of SPPEXA s first funding phase and provides an overview of SPPEXA s contributions towards exascale computing in today s sumpercomputer technology The individual chapters address one or more of the research directions 1 computational algorithms 2 system software 3 application software 4 data management and exploration 5 programming and 6 software tools The book has an interdisciplinary appeal scholars from computational sub fields in computer science mathematics physics or engineering will find it of particular interest **Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2016** Marco L. Bittencourt,Ney A. Dumont,Jan S. Hesthaven,2017-11-07 This book features a selection of high quality papers chosen from the best presentations at the International Conference on Spectral and High Order Methods 2016 offering an overview of the depth and breadth of the

activities within this important research area The carefully reviewed papers provide a snapshot of the state of the art while the extensive bibliography helps initiate new research directions *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 High Order Finite Difference and Finite Volume WENO Schemes and Discontinuous Galerkin Methods for CFD Chi-Wang Shu,2001 In recent years high order numerical methods have been widely used in computational fluid dynamics CFD to effectively resolve complex flow features using meshes which are reasonable for today s computers In this paper we review and compare three types of high order methods being used in CFD namely the weighted essentially non oscillatory WENO finite difference methods the WENO finite volume methods and the discontinuous Galerkin DG finite element methods We summarize the main features of these methods from a practical user s point of view indicate their applicability and relative strength and show a few selected numerical examples to demonstrate their performance on illustrative model CFD problems *Research in Progress: Applied and Numerical Mathematics* ,1996 ICASE ,1994 4th International Symposium on Fluid-Structure Interactions, Aeroelasticity, Flow-Induced Vibration and Noise ,1997 *International Aerospace Abstracts* ,1999 *Encyclopedia of Computational Mechanics* Erwin Stein,René de Borst,Thomas J. R. Hughes,2004 The Encyclopedia of Computational Mechanics provides a comprehensive collection of knowledge about the theory and practice of computational mechanics Mathematical Reviews ,2007 **Techniques for High-order Adaptive Discontinuous Galerkin Discretizations in Fluid Dynamics** Li Wang,2009 The use of high order discontinuous Galerkin DG discretizations has become more widespread over the last decade for solving convection dominated computational fluid dynamics problems The appeal of these methods relates to their favorable asymptotic accuracy properties combined with compact stencils and favorable scalability properties on parallel computing architectures This work covers advances in several areas of high order DG discretizations including the development of implicit solvers discrete adjoint methods for shape optimization and output based error estimation and mesh and time step adaptation For time dependent problems high order implicit time integration schemes are considered

exclusively to avoid the stability restrictions of explicit methods with particular emphasis on balancing spatial and temporal accuracy of the overall approach In order to make the high order schemes competitive efficient solution techniques consisting of a p multigrid approach driven by element Jacobi smoothers are investigated and developed to accelerate convergence of the non linear systems in which the results demonstrate h independent convergence rates while remaining relatively insensitive to time step sizes A framework based on discrete adjoint sensitivity analysis has also been developed for applications in shape optimization and goal oriented error estimation An adaptive discontinuous Galerkin algorithm driven by an adjoint based error estimation procedure has been developed which incorporates both h p and combined hp adaptive schemes for producing accurate simulations at optimal cost in the objective functional of interest Current results show superior performance of these adaptive schemes over uniform mesh refinement methods as well as the potential of the hp refinement approach to capture strong shocks without limiters Finally the adjoint based error estimation strategy is successfully extended to unsteady flow problems where the time dependent flow solution is solved in a forward manner in time but the corresponding unsteady adjoint solution is evaluated as a backward time integration Results demonstrate that this methodology provides accurate global temporal error prediction and may be employed to drive an adaptive time step refinement strategy for improving the accuracy of specified time dependent functionals of interest **Dissertation Abstracts International** ,1999 Spring Meeting American Geophysical Union. Spring Meeting,2001 **Proceedings of the Joint International Conference on Mathematical Methods and Supercomputing for Nuclear Applications, Saratoga Springs, New York, October 5-9, 1997** ,1997 Robust and Accurate Shock-capturing in Discontinuous Galerkin Discretizations Jae Hwan Choi,2019 Computational Fluid Dynamics CFD has become a critical component in analyzing fluid flows and designing industrial products Among various numerical methods in CFD second order numerical schemes have been widely used in both industry and academia Second order methods are robust enough to use on complex geometries and usually provide a sufficient amount of accuracy in flow simulations However second order accurate solutions may not be sufficient for many aerodynamic applications such as vortex flows Large Eddy Simulations LES and aeroacoustics problems As a consequence researchers have sought high order numerical methods to simulate complex flows with low dissipation over the past few decades Many approaches have been suggested including Finite Difference FD Finite Volume FV and Finite Element FE frameworks for CFD In the group of high order methods discontinuous Galerkin DG methods have become popular in academia because of their distinctive benefits For DG methods high order accuracy in flow solutions can be easily achieved by just adding more degrees of freedom in each element Furthermore DG methods are well suited to modern computer hardware even on GPUs due to high arithmetic intensity and the locality of operations Despite their numerous benefits DG methods are not widely adopted because of some remaining challenges especially in industry One of these difficulties is shock capturing Similarly to other numerical methods in CFD DG methods also suffer from spurious

oscillations if discontinuities arise during flow simulations The accuracy of solutions will degrade significantly or solutions may diverge unless these discontinuities are captured appropriately Therefore a shock capturing capability becomes necessary for DG methods to simulate compressible flows with shocks In this work robust and accurate shock capturing approaches for DG methods will be demonstrated To precisely capture various strengths of shocks a simple shock detector is first proposed for DG discretizations which only relies on local flow information Additionally filtering strengths are precalculated to avoid parameter tuning procedures and are optimized to achieve maximum accuracy while capturing shocks The proposed methods are then applied to two and three dimensional canonical problems to demonstrate the shock capturing capabilities of the proposed methods **High Order Discontinuous Galerkin Methods for the Simulation of Multiscale Problems** Andrea Beck,2015 *Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen* ,1996 A High-order Discontinuous Galerkin Solver for Incompressible and Low-mach Number Flows Benedikt Klein,2015

The book delves into Robust Smoothers For High Order Discontinuous Galerkin. Robust Smoothers For High Order Discontinuous Galerkin is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Robust Smoothers For High Order Discontinuous Galerkin, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

    - Chapter 1: Introduction to Robust Smoothers For High Order Discontinuous Galerkin
    - Chapter 2: Essential Elements of Robust Smoothers For High Order Discontinuous Galerkin
    - Chapter 3: Robust Smoothers For High Order Discontinuous Galerkin in Everyday Life
    - Chapter 4: Robust Smoothers For High Order Discontinuous Galerkin in Specific Contexts
    - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Robust Smoothers For High Order Discontinuous Galerkin. This chapter will explore what Robust Smoothers For High Order Discontinuous Galerkin is, why Robust Smoothers For High Order Discontinuous Galerkin is vital, and how to effectively learn about Robust Smoothers For High Order Discontinuous Galerkin.
3. In chapter 2, the author will delve into the foundational concepts of Robust Smoothers For High Order Discontinuous Galerkin. The second chapter will elucidate the essential principles that need to be understood to grasp Robust Smoothers For High Order Discontinuous Galerkin in its entirety.
4. In chapter 3, the author will examine the practical applications of Robust Smoothers For High Order Discontinuous Galerkin in daily life. The third chapter will showcase real-world examples of how Robust Smoothers For High Order Discontinuous Galerkin can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Robust Smoothers For High Order Discontinuous Galerkin in specific contexts. This chapter will explore how Robust Smoothers For High Order Discontinuous Galerkin is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Robust Smoothers For High Order Discontinuous Galerkin. This chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Robust Smoothers For High Order Discontinuous Galerkin.

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