

Scientific Computation

Dmitri Kuzmin
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Flux-Corrected Transport

Principles, Algorithms, and Applications

Second Edition

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Flux Corrected Transport Principles Algorithms And Applications

R. Glowinski



Flux Corrected Transport Principles Algorithms And Applications:

Flux-Corrected Transport Dmitri Kuzmin, Rainald Löhner, Stefan Turek, 2006-01-27 Addressing students and researchers as well as CFD practitioners this book describes the state of the art in the development of high resolution schemes based on the Flux Corrected Transport FCT paradigm Intended for readers who have a solid background in computational fluid dynamics the book begins with historical notes by J P Boris and D L Book Review articles that follow describe recent advances in the design of FCT algorithms as well as various algorithmic aspects The topics addressed in the book and its main highlights include the derivation and analysis of classical FCT schemes with special emphasis on the underlying physical and mathematical constraints flux limiting for hyperbolic systems generalization of FCT to implicit time stepping and finite element discretizations on unstructured meshes and its role as a subgrid scale model for Monotonically Integrated Large Eddy Simulation MILES of turbulent flows The proposed enhancements of the FCT methodology also comprise the prelimiting and failsafe adjustment of antidiffusive fluxes the use of characteristic variables and iterative flux correction The cause and cure of detrimental clipping terracing effects are discussed Many numerical examples are presented for academic test problems and large scale applications alike

Flux-Corrected Transport Dmitri Kuzmin, Rainald Löhner, Stefan Turek, 2012-04-02 Addressing students and researchers as well as Computational Fluid Dynamics practitioners this book is the most comprehensive review of high resolution schemes based on the principle of Flux Corrected Transport FCT The foreword by J P Boris and historical note by D L Book describe the development of the classical FCT methodology for convection dominated transport problems while the design philosophy behind modern FCT schemes is explained by S T Zalesak The subsequent chapters present various improvements and generalizations proposed over the past three decades In this new edition recent results are integrated into existing chapters in order to describe significant advances since the publication of the first edition Also 3 new chapters were added in order to cover the following topics algebraic flux correction for finite elements iterative and linearized FCT schemes TVD like flux limiters acceleration of explicit and implicit solvers mesh adaptation failsafe limiting for systems of conservation laws flux corrected interpolation remapping positivity preservation in RANS turbulence models and the use of FCT as an implicit subgrid scale model for large eddy simulations

Numerical Mathematics and Advanced Applications ENUMATH 2023, Volume 1 Adélia Sequeira, Ana Silvestre, Svilen S. Valtchev, João Janela, 2025-04-24 This book gathers outstanding papers presented at the European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2023 The conference was held in Lisbon Portugal in September 2023 Leading experts in the field presented the latest results and ideas regarding the design implementation and analysis of numerical algorithms as well as their applications to relevant societal problems ENUMATH is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and its scientific and industrial applications all examined at the highest level of international expertise The first ENUMATH was held in Paris

in 1995 with successive installments at various sites across Europe including Heidelberg 1997 Jyväskylä 1999 Ischia Porto 2001 Prague 2003 Santiago de Compostela 2005 Graz 2007 Uppsala 2009 Leicester 2011 Lausanne 2013 Ankara 2015 Bergen 2017 and Egmond aan Zee 2019

Finite Element Methods for Computational Fluid Dynamics Dmitri Kuzmin, Jari Hamalainen, 2014-12-18 This informal introduction to computational fluid dynamics and practical guide to numerical simulation of transport phenomena covers the derivation of the governing equations construction of finite element approximations and qualitative properties of numerical solutions among other topics To make the book accessible to readers with diverse interests and backgrounds the authors begin at a basic level and advance to numerical tools for increasingly difficult flow problems emphasizing practical implementation rather than mathematical theory Finite Element Methods for Computational Fluid Dynamics A Practical Guide explains the basics of the finite element method FEM in the context of simple model problems illustrated by numerical examples It comprehensively reviews stabilization techniques for convection dominated transport problems introducing the reader to streamline diffusion methods Petrov Galerkin approximations Taylor Galerkin schemes flux corrected transport algorithms and other nonlinear high resolution schemes and covers Petrov Galerkin stabilization classical projection schemes Schur complement solvers and the implementation of the k epsilon turbulence model in its presentation of the FEM for incompressible flow problem The book also describes the open source finite element library ELMER which is recommended as a software development kit for advanced applications in an online component

Physics-Compatible Finite Element Methods for Scalar and Tensorial Advection Problems Christoph Lohmann, 2019-10-14 Christoph Lohmann introduces a very general framework for the analysis and design of bound preserving finite element methods The results of his in depth theoretical investigations lead to promising new extensions and modifications of existing algebraic flux correction schemes The main focus is on new limiting techniques designed to control the range of solution values for advected scalar quantities or the eigenvalue range of symmetric tensors The author performs a detailed case study for the Folgar Tucker model of fiber orientation dynamics Using eigenvalue range preserving limiters and admissible closure approximations he develops a physics compatible numerical algorithm for this model

Numerical Mathematics and Advanced Applications Alfredo Bermúdez de Castro, Dolores Gómez, Peregrina Quintela, Pilar Salgado, 2007-10-08 These proceedings collect lectures given at ENUMATH 2005 the 6th European Conference on Numerical Mathematics and Advanced Applications held in Santiago de Compostela Spain in July 2005 Topics include applications such as fluid dynamics electromagnetism structural mechanics interface problems waves finance heat transfer unbounded domains numerical linear algebra convection diffusion as well as methodologies such as a posteriori error estimates discontinuous Galerkin methods multiscale methods optimization and more

Numerical Computations with GPUs Volodymyr Kindratenko, 2014-07-03 This book brings together research on numerical methods adapted for Graphics Processing Units GPUs It explains recent efforts to adapt classic numerical methods including solution of linear equations

and FFT for massively parallel GPU architectures This volume consolidates recent research and adaptations covering widely used methods that are at the core of many scientific and engineering computations Each chapter is written by authors working on a specific group of methods these leading experts provide mathematical background parallel algorithms and implementation details leading to reusable adaptable and scalable code fragments This book also serves as a GPU implementation manual for many numerical algorithms sharing tips on GPUs that can increase application efficiency The valuable insights into parallelization strategies for GPUs are supplemented by ready to use code fragments Numerical Computations with GPUs targets professionals and researchers working in high performance computing and GPU programming Advanced level students focused on computer science and mathematics will also find this book useful as secondary text book or reference

Numerical Mathematics and Advanced Applications ENUMATH 2019 Fred J. Vermolen, Cornelis Vuik, 2021-04-30 This book gathers outstanding papers presented at the European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2019 The conference was organized by Delft University of Technology and was held in Egmond aan Zee the Netherlands from September 30 to October 4 2019 Leading experts in the field presented the latest results and ideas regarding the design implementation and analysis of numerical algorithms as well as their applications to relevant societal problems ENUMATH is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and scientific and industrial applications all examined at the highest level of international expertise The first ENUMATH was held in Paris in 1995 with successive installments at various sites across Europe including Heidelberg 1997 Jyväskylä 1999 Ischia Porto 2001 Prague 2003 Santiago de Compostela 2005 Graz 2007 Uppsala 2009 Leicester 2011 Lausanne 2013 Ankara 2015 and Bergen 2017

Physics of Lakes Kolumban Hutter, Irina P. Chubarenko, Yongqi Wang, 2014-03-26 The ongoing thread in this volume of Physics of Lakes is the presentation of different methods of investigation for processes taking place in real lakes with a view to understanding lakes as components of the geophysical environment It is divided into three parts Part I is devoted to numerical modeling techniques and demonstrates that i wind induced currents in depth integrated models can only adequately predict current fields for extremely shallow lakes and ii that classical multi layered simulation models can only adequately reproduce current and temperature distributions when the lake is directly subjected to wind but not the post wind oscillating response This makes shock capturing discretization techniques and Mellor Yamada turbulence closure schemes necessary as well as extremely high grid resolution to reduce the excessive numerical diffusion Part II is devoted to the presentation of principles of observation and laboratory experimental procedures It details the principles of operation for current temperature conductivity and other sensors applied in the field It also discusses the advantages and limitations of common measuring methods like registration from stationary or drifting buoys sounding and profiling from a boat etc Questions of data accuracy quality and reliability are also addressed The use of laboratory experiments on a rotating platform

is based on an exposition of dimensional analysis and model theory and illustrated using Lake Constance as an example Part III gives an account of the dynamics of lake water as a particle laden fluid which coupled with the transport of the bottom sediments leads to morphodynamic changes of the bathymetry in estuarine and possibly whole lake regions An elegant spatially one dimensional theory makes it possible to derive analytic solutions of deltaic formations which are corroborated by laboratory experiments A full three dimensional description of the evolution of the alluvial bathymetry under prescribed tributary sediment input indicates a potential subject for future research

Meshfree Methods for Partial Differential Equations IX Michael Griebel, Marc Alexander Schweitzer, 2019-06-19 This volume collects selected papers presented at the Ninth International Workshop on Meshfree Methods held in Bonn Germany in September 2017 They address various aspects of this very active research field and cover topics from applied mathematics physics and engineering The numerical treatment of partial differential equations with meshfree discretization techniques has been a very active research area in recent years While the fundamental theory of meshfree methods has been developed and considerable advances of the various methods have been made many challenges in the mathematical analysis and practical implementation of meshfree methods remain This symposium aims to promote collaboration among engineers mathematicians and computer scientists and industrial researchers to address the development mathematical analysis and application of meshfree and particle methods especially to multiscale phenomena It continues the 2 year cycled Workshops on Meshfree Methods for Partial Differential Equations

Boundary and Interior Layers, Computational and Asymptotic Methods BAIL 2016 Zhongyi Huang, Martin Stynes, Zhimin Zhang, 2017-10-26 This volume collects papers associated with lectures that were presented at the BAIL 2016 conference which was held from 14 to 19 August 2016 at Beijing Computational Science Research Center and Tsinghua University in Beijing China It showcases the variety and quality of current research into numerical and asymptotic methods for theoretical and practical problems whose solutions involve layer phenomena The BAIL Boundary And Interior Layers conferences held usually in even numbered years bring together mathematicians and engineers physicists whose research involves layer phenomena with the aim of promoting interaction between these often separate disciplines These layers appear as solutions of singularly perturbed differential equations of various types and are common in physical problems most notably in fluid dynamics This book is of interest for current researchers from mathematics engineering and physics whose work involves the accurate approximation of solutions of singularly perturbed differential equations that is problems whose solutions exhibit boundary and or interior layers

Shock capturing and high-order methods for hyperbolic conservation laws Jan Glaubitz, 2020-03-20 This thesis is concerned with the numerical treatment of hyperbolic conservation laws These play an important role in describing many natural phenomena Challenges in their theoretical as well as numerical study stem from the fact that spontaneous shock discontinuities can arise in their solutions even in finite time and smooth initial states Moreover the numerical treatment of hyperbolic conservation laws involves many different fields from

mathematics physics and computer science As a consequence this thesis also provides contributions to several different fields of research which are still connected by numerical conservation laws however These contributions include but are not limited to the construction of stable high order quadrature rules for experimental data the development of new stable numerical methods for conservation laws and the investigation and design of shock capturing procedures as a means to stabilize high order numerical methods in the presence of shock discontinuities Jan Glaubitz was born in Braunschweig Germany in 1990 and completed his mathematical studies B Sc 2014 M Sc 2016 Dr rer nat 2019 at TU Braunschweig In 2016 he received awards from the German Mathematical Society DMV for his master s thesis as well as from the Society of Financial and Economic Mathematics of Braunschweig VBFWM In 2017 he was honored with the teaching award LehrLEO for the best tutorial at TU Braunschweig Since 2020 he holds a position as a postdoctoral researcher at Dartmouth College NH USA

Boundary and Interior Layers, Computational and Asymptotic Methods - BAIL 2014 Petr Knobloch, 2016-04-19

This volume offers contributions reflecting a selection of the lectures presented at the international conference BAIL 2014 which was held from 15th to 19th September 2014 at the Charles University in Prague Czech Republic These are devoted to the theoretical and or numerical analysis of problems involving boundary and interior layers and methods for solving these problems numerically The authors are both mathematicians pure and applied and engineers and bring together a large number of interesting ideas The wide variety of topics treated in the contributions provides an excellent overview of current research into the theory and numerical solution of problems involving boundary and interior layers **Large-Scale**

Scientific Computing Ivan Lirkov, Svetozar Margenov, Jerzy Waśniewski, 2014-06-26 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Conference on Large Scale Scientific Computations LSSC 2013 held in Sozopol Bulgaria in June 2013 The 74 revised full papers presented together with 5 plenary and invited papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on numerical modeling of fluids and structures control and uncertain systems Monte Carlo methods theory applications and distributed computing theoretical and algorithmic advances in transport problems applications of metaheuristics to large scale problems modeling and numerical simulation of processes in highly heterogeneous media large scale models numerical methods parallel computations and applications numerical solvers on many core systems cloud and grid computing for resource intensive scientific applications *BAIL 2008 - Boundary and Interior Layers* Alan Hegarty, Natalia Kopteva, Eugene

O'Riordan, Martin Stynes, 2009-06-10 These Proceedings contain a selection of the lectures given at the conference BAIL 2008 Boundary and Interior Layers Computational and Asymptotic Methods which was held from 28th July to 1st August 2008 at the University of Limerick Ireland The rst three BAIL conferences 1980 1982 1984 were organised by Professor John Miller in Trinity College Dublin Ireland The next seven were held in Novosibirsk 1986 Shanghai 1988 Colorado 1992 Beijing 1994 Perth 2002 Toulouse 2004 and Göttingen 2006 With BAIL 2008 the series returned to Ireland BAIL 2010 is planned for

Zaragoza The BAIL conferences strive to bring together mathematicians and engineers whose research involves layer phenomena as these two groups often pursue largely independent paths BAIL 2008 at which both communities were well represented succeeded in this regard The lectures given were evenly divided between applications and theory exposing all conference participants to a broad spectrum of research into problems exhibiting solutions with layers The Proceedings give a good overview of current research into the theory application and solution by both numerical and asymptotic methods of problems that involve boundary and interior layers In addition to invited and contributed lectures the conference included four mini symposia devoted to stabilized finite element methods asymptotic scaling of wall bounded flows systems of singularly perturbed differential equations and problems with industrial applications supported by MACSI the Mathematics Applications Consortium for Science and Industry These titles exemplify the mix of interests among the participants

Mathematics of Large Eddy Simulation of Turbulent Flows Luigi Carlo Berselli, Traian Iliescu, William J. Layton, 2006 The LES method is rapidly developing in many practical applications in engineering The mathematical background is presented here for the first time in book form by one of the leaders in the field

Asymptotic Analysis and Boundary Layers Jean Cousteix, Jacques Mauss, 2007-03-22 This book presents a new method of asymptotic analysis of boundary layer problems the Successive Complementary Expansion Method SCSEM The first part is devoted to a general presentation of the tools of asymptotic analysis It gives the keys to understand a boundary layer problem and explains the methods to construct an approximation The second part is devoted to SCSEM and its applications in fluid mechanics including external and internal flows

NRL Review, 2009

Computational Mechanics of Fluid-Structure Interaction Rajeev Kumar Jaiman, Vaibhav Joshi, 2021-11-29 This book is intended to provide a compilation of the state of the art numerical methods for nonlinear fluid structure interaction using the moving boundary Lagrangian Eulerian formulation Single and two phase viscous incompressible fluid flows are considered with the increasing complexity of structures ranging from rigid body linear elastic and nonlinear large deformation to fully coupled flexible multibody system This book is unique with regard to computational modeling of such complex fluid structure interaction problems at high Reynolds numbers whereby various coupling techniques are introduced and systematically discussed The techniques are demonstrated for large scale practical problems in aerospace and marine offshore engineering This book also provides a comprehensive understanding of underlying unsteady physics and coupled mechanical aspects of the fluid structure interaction from a computational point of view Using the body fitted and moving mesh formulations the physical insights associated with structure to fluid mass ratios i.e. added mass effects Reynolds number large structural deformation free surface and other interacting physical fields are covered The book includes the basic tools necessary to build the concepts required for modeling such coupled fluid structure interaction problems thus exposing the reader to advanced topics of multiphysics and multiscale phenomena

Lectures on Numerical Methods for Non-Linear Variational Problems R. Glowinski, 2008-01-22 When Herb Keller suggested more than two years ago

that we update our lectures held at the Tata Institute of Fundamental Research in 1977 and then have it published in the collection Springer Series in Computational Physics we thought at first that it would be an easy task. Actually we realized very quickly that it would be more complicated than what it seemed at first glance for several reasons. 1 The first version of Numerical Methods for Nonlinear Variational Problems was in fact part of a set of monographs on numerical mathematics published in a short span of time by the Tata Institute of Fundamental Research in its well known series Lectures on Mathematics and Physics as might be expected the first version systematically used the material of the above monographs this being particularly true for Lectures on the Finite Element Method by P G Ciarlet and Lectures on Optimization Theory and Algorithms by J Cea. This second version had to be more self contained. This necessity led to some minor additions in Chapters I-IV of the original version and to the introduction of a chapter namely Chapter V of this book on relaxation methods since these methods play an important role in various parts of this book.

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