Finite Volumes for Complex Applications III

Problems and Perspectives

edited by
Raphaèle Herbin & Dietmar Kröner

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Finite Volumes For Complex Applications Iii

Fayssal Benkhaldoun,Driss Ouazar,Said Raghay

Finite Volumes For Complex Applications Iii:

Finite Volumes for Complex Applications III Raphaèle Herbin,Dietmar Kröner,2002 Scientific computing which involves the analysis of complex systems in real applications with numerical simulations is becoming an important field of research in itself in relation to theoretical investigations and physical experiments In many cases the underlying mathematical models consist of large systems of partial differential equations which have to be solved with high accuracy and efficiency Among the successful methods in particular for discretizations on unstructured grids are the Finite Volume schemes This publication contains the contributions presented at the third Symposium on Finite Volumes for Complex Applications held in Porquerolles in June 2002 After a critical review of the submitted papers 96 papers by authors from more than 20 countries are presented in this volume The subject of these papers ranges from theoretical and numerical results such as theoretical foundation and validation adaptivity in space and time higher order discretization and parallelization to physical applications such as multiphase flow and flows through porous media magnetohydrodynamics reacting and turbulent flows elastic structures granular avalanches and image processing *Second International Symposium on Finites Volumes for Complex Applications* Roland Vilsmeier,1999 **Finite Volumes for Complex Applications X—Volume 2, Hyperbolic and Related Problems** Emmanuel Franck,Jürgen Fuhrmann,Victor Michel-Dansac,Laurent Navoret,2023-10-12 This volume comprises the second part of the proceedings of the 10th International Conference on Finite Volumes for Complex Applications FVCA held in Strasbourg France during October 30 to November 3 2023 The Finite Volume method and several of its variants is a spatial discretization technique for partial differential equations based on the fundamental physical principle of conservation Recent decades have brought significant success in the theoretical understanding of the method Many finite volume methods are also built to preserve some properties of the continuous equations including maximum principles dissipativity monotone decay of the free energy asymptotic stability or stationary solutions Due to these properties finite volume methods belong to the wider class of compatible discretization methods which preserve qualitative properties of continuous problems at the discrete level This structural approach to the discretization of partial differential equations becomes particularly important for multiphysics and multiscale applications In recent years the efficient implementation of these methods in numerical software packages more specifically to be used in supercomputers has drawn some attention The first volume contains all invited papers as well as the contributed papers focusing on finite volume schemes for elliptic and parabolic problems They include structure preserving schemes convergence proofs and error estimates for problems governed by elliptic and parabolic partial differential equations This volume is focused on finite volume methods for hyperbolic and related problems such as methods compatible with the low Mach number limit or able to exactly preserve steady solutions the development and analysis of high order methods or the discretization of kinetic equations **Finite Volumes for Complex Applications IX - Methods, Theoretical Aspects, Examples** Robert Klöfkorn,Eirik

Keilegavlen,Florin A. Radu,Jürgen Fuhrmann,2020-06-09 The proceedings of the 9th conference on Finite Volumes for Complex Applications Bergen June 2020 are structured in two volumes The first volume collects the focused invited papers as well as the reviewed contributions from internationally leading researchers in the field of analysis of finite volume and related methods Topics covered include convergence and stability analysis as well as investigations of these methods from the point of view of compatibility with physical principles Altogether a rather comprehensive overview is given on the state of the art in the field The properties of the methods considered in the conference give them distinguished advantages for a number of applications These include fluid dynamics magnetohydrodynamics structural analysis nuclear physics semiconductor theory carbon capture utilization and storage geothermal energy and further topics The second volume covers reviewed contributions reporting successful applications of finite volume and related methods in these fields The finite volume method in its various forms is a space discretization technique for partial differential equations based on the fundamental physical principle of conservation Many finite volume methods preserve further qualitative or asymptotic properties including maximum principles dissipativity monotone decay of free energy and asymptotic stability making the finite volume methods compatible discretization methods which preserve qualitative properties of continuous problems at the discrete level This structural approach to the discretization of partial differential equations becomes particularly important for multiphysics and multiscale applications The book is a valuable resource for researchers PhD and master s level students in numerical analysis scientific computing and related fields such as partial differential equations as well as engineers working in numerical modeling and simulations Finite Volumes for Complex Applications X—Volume 1, Elliptic and Parabolic Problems Emmanuel Franck,Jürgen Fuhrmann,Victor Michel-Dansac,Laurent Navoret,2023-09-30 This volume comprises the first part of the proceedings of the 10th International Conference on Finite Volumes for Complex Applications FVCA held in Strasbourg France during October 30 to November 3 2023 The Finite Volume method and several of its variants is a spatial discretization technique for partial differential equations based on the fundamental physical principle of conservation Recent decades have brought significant success in the theoretical understanding of the method Many finite volume methods are also built to preserve some properties of the continuous equations including maximum principles dissipativity monotone decay of the free energy asymptotic stability or stationary solutions Due to these properties finite volume methods belong to the wider class of compatible discretization methods which preserve qualitative properties of continuous problems 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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

Finite Volumes for Complex Applications VIII - Hyperbolic, Elliptic and Parabolic Problems Clément Cancès,Pascal Omnes,2017-05-22 This book is the second volume of proceedings of the 8th conference on Finite Volumes for Complex Applications Lille June 2017 It includes reviewed contributions reporting successful applications in the fields of fluid dynamics computational geosciences structural analysis nuclear physics semiconductor theory and other topics The finite volume method in its various forms is a space discretization technique for partial differential equations based on the fundamental physical principle of conservation and recent decades have brought significant advances in the theoretical understanding of the method Many finite volume methods preserve further qualitative or asymptotic properties including maximum principles dissipativity monotone decay of free energy and asymptotic stability Due to these properties finite volume methods belong to the wider class of compatible 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cryogenic applications medical and biological applications image processing Papers on Industrial codes as well as interdisciplinary approaches are also included in these proceedings **Finite Volumes For Complex Applications VIII, volumes 1 and 2** Clément Cancès,Pascal Omnes,2017-05-24 This set includes the first and second volume of the proceedings of the 8th conference on Finite Volumes for Complex Applications Lille June 2017 that collect together focused invited papers as well as reviewed contributions from internationally leading researchers in the field of analysis of finite volume and related methods offering a comprehensive overview of the state of the art in the field The finite volume method in its various forms is a space discretization technique for partial differential equations based on the fundamental physical principle of conservation and recent decades have brought significant advances in the theoretical understanding of the method Many finite volume methods preserve 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Finite Volumes for Complex Applications VII-Elliptic, Parabolic and Hyperbolic Problems Jürgen Fuhrmann,Mario Ohlberger,Christian Rohde,2014-05-16 The methods considered in the 7th conference on Finite Volumes for Complex Applications Berlin June 2014 have properties which offer distinct advantages for a number of applications The second volume of the proceedings covers reviewed contributions reporting successful applications in the fields of fluid dynamics magnetohydrodynamics structural analysis nuclear physics semiconductor theory and other topics The finite volume method in its various forms is a space discretization technique for partial differential equations based on the fundamental physical principle of conservation Recent decades have brought significant success in the theoretical understanding of the method Many finite volume methods preserve further qualitative or asymptotic properties including maximum principles dissipativity monotone decay of free energy and asymptotic stability Due to these properties finite volume methods belong to the wider class of compatible discretization methods which preserve qualitative properties of continuous problems at the discrete level This structural approach to the discretization of partial differential equations becomes particularly important for multiphysics and multiscale applications Researchers PhD and masters level students in numerical analysis scientific computing and related fields such as partial differential equations will find this volume useful as will engineers working in numerical modeling and simulations *Finite Volumes for Complex Applications V* Eymard,

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