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About this book. The proceedings of the 9 th 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 ...

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Finite Volumes for Complex Applications IX - Methods ...

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.

Finite Volumes for Complex Applications VI Problems ...

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.

Finite Volumes for Complex Applications VII-Elliptic ...

Finite Volumes for Complex Applications IX JUNE 15-19, 2020 BERGEN, NORWAY (held ONLINE)
Objectives of the conference The Finite Volume method in its various variants is a spatial discretization technique for partial differential equations based on the fundamental physical principle of conservation.

Overview - Intpart

Description. This volume contains papers presented at the 5th International Symposium on Finite Volumes for Complex Applications, held at Aussois, France, in June 2008. The first part includes papers concerned with: - Theoretical and numerical results, for instance: convergence, new finite volume schemes, adaptivity, approximation of probability laws.

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Finite Volumes for Complex Applications V - ISTE

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.

Finite Volumes for Complex Applications VIII - Hyperbolic ...

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Finite Volumes for Complex Applications VII: Methods ...

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.

Finite Volumes for Complex Applications VII-Elliptic ...

Description. This volume contains contributions from speakers at the 4th International Symposium on Finite Volumes for Complex Applications, held in Marrakech, Morocco, in July 2005. The subject of these papers ranges from theoretical and numerical results to physical applications.

Finite Volumes for Complex Applications IV - ISTE

The finite volume method in its numerous variants is a space discretization technique for partial differential equations based on the fundamental physical principle of conservation. It has been used successfully in many applications including fluid dynamics, magnetohydrodynamics, structural analysis, nuclear physics, and semiconductor theory.

Finite Volumes for Complex Applications 8 (12-16 juin 2017 ...

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Finite Volumes for Complex Applications VIII - Methods and ...

The goal of the symposium is to bring together mathematicians, physicists and engineers who are concerned with Finite Volume Techniques in a wide context. Examples for the broad field of applications are fluid dynamics, magnetohydrodynamics, structural analysis or nuclear physics.

FVCA 6

Finite Volumes for Complex Applications VI Problems & Perspectives: FVCA 6, International Symposium, Prague, June 6-10, 2011 (Springer Proceedings in Mathematics Book ...

Finite Volumes for Complex Applications VI Problems ...

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.

8th conference on Finite Volumes for Complex Applications ...

The first volume of the proceedings of the 7th conference on "Finite Volumes for Complex Applications" (Berlin, June 2014) covers topics that include convergence and stability analysis, as well as investigations of these methods from the point of view of compatibility with physical principles.

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