



Finite Volumes for Complex Applications VII-Methods and Theoretical Aspects FVCA 7, Berlin, June 2014 Springer Proceedings in Mathematics Statistics

By -

Springer. Hardcover. Book Condition: New. Hardcover. 468 pages. Dimensions: 9.2in. x 6.3in. x 1.3in. 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. It collects together 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. Altogether, a rather comprehensive overview is given 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. 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...

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