

Wai-How Hui
Kun Xu

Computational Fluid Dynamics Based on the Unified Coordinates

Computational Fluid Dynamics Based On The Unified Coordinates

Kolumban Hutter, Yi-Chung Shu



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Computational Fluid Dynamics Based on the Unified Coordinates Wai-How Hui, Kun Xu, 2012-12-09 Computational Fluid Dynamics Based on the Unified Coordinates reviews the relative advantages and drawbacks of Eulerian and Lagrangian coordinates as well as the Arbitrary Lagrangian Eulerian ALE and various moving mesh methods in Computational Fluid Dynamics CFD for one and multi dimensional flows It then systematically introduces the unified coordinate approach to CFD illustrated with numerous examples and comparisons to clarify its relation with existing approaches The book is intended for researchers graduate students and practitioners in the field of Computational Fluid Dynamics Emeritus Professor Wai Hou Hui and Professor Kun Xu both work at the Department of Mathematics of the Hong Kong University of Science Technology Hong Kong China

From Waves in Complex Systems to Dynamics of Generalized Continua Kolumban Hutter, Yi-Chung Shu, 2011 The book reviews recent research activities in applied mechanics and applied mathematics such as the fields of solid fluid constitutive modeling for coupled fields applications of geophysical environmental context in judicious numerical computational implementations The book aims to merge foundation aspects of continuum mechanics with modern technological applications notably on reviewing recent advances in the treated subjects in an attractive presentation accessible to a wide readership of engineering and applied sciences

Direct Modeling For Computational Fluid Dynamics: Construction And Application Of Unified Gas-kinetic Schemes Kun Xu, 2014-12-23 Computational fluid dynamics CFD studies the flow motion in a discretized space Its basic scale resolved is the mesh size and time step The CFD algorithm can be constructed through a direct modeling of flow motion in such a space This book presents the principle of direct modeling for the CFD algorithm development and the construction unified gas kinetic scheme UGKS The UGKS accurately captures the gas evolution from rarefied to continuum flows Numerically it provides a continuous spectrum of governing equation in the whole flow regimes

Shallow Geophysical Mass Flows down Arbitrary Topography Ioana Luca, Yih-Chin Tai, Chih-Yu Kuo, 2016-02-02 Geophysical mass flows such as landslides avalanches or debris flows are frequent mass movement processes in mountain areas and often cause disastrous damage This book lays a foundation for formulating the depth averaged equations describing the shallow geophysical mass flows over non trivial topography It consists of the detailed derivation of the model equations The stimulating numerical examples demonstrate how the proposed models are applied All this make this book accessible to a wide variety of readers especially senior undergraduate and graduate students of fluid mechanics civil engineering applied mathematics engineering geology geophysics or engineers who are responsible for hazard management

Numerical Methods for Eulerian and Lagrangian Conservation Laws Bruno Després, 2017-07-09 This book focuses on the interplay between Eulerian and Lagrangian conservation laws for systems that admit physical motivation and originate from continuum mechanics Ultimately it highlights what is specific to and beneficial in the Lagrangian approach and its numerical methods The two first chapters present a selection of well known features of

conservation laws and prepare readers for the subsequent chapters which are dedicated to the analysis and discretization of Lagrangian systems. The text is at the frontier of applied mathematics and scientific computing and appeals to students and researchers interested in Lagrangian based computational fluid dynamics. It also serves as an introduction to the recent corner based Lagrangian finite volume techniques.

2012, 2013-03-01 Particularly in the humanities and social sciences festschrifts are a popular forum for discussion. The IJBF provides quick and easy general access to these important resources for scholars and students. The festschrifts are located in state and regional libraries and their bibliographic details are recorded. Since 1983 more than 659 000 articles from more than 30 500 festschrifts published between 1977 and 2011 have been catalogued.

Computational Fluid Dynamics 2002 Steve Armfield, P. Morgan, Karkenahalli Srinivas, 2012-12-06 We are pleased to present the Proceedings of the Second International Conference on Computational Fluid Dynamics held at the University of Sydney Australia from July 15 to 19 2002. The conference was a productive meeting of scientists, mathematicians and engineers involved in the computation of fluid flow. Keynote lectures were presented in the areas of optimisation, algorithms, turbulence and bio fluid mechanics. Two hundred and fifty abstracts from many countries were received for consideration. The executive committee, consisting of A. Lerat, M. Napolitano, J. J. Chattot, N. Satofuka and myself, were responsible for the selection of papers. Each of the members had a separate subcommittee to carry out the evaluation. One hundred and seventy papers were selected, of which one hundred and fifty-two were presented at the conference. All papers that appear in the proceedings have been peer reviewed by a panel of experts with a minimum of two for every paper before publication. The conference was attended by 160 delegates with a minimum of late withdrawals. The informal and friendly atmosphere provided by the university surroundings was highly appreciated and the technical aspects of the conference were stimulating. It is appropriate here to thank Alain Lerat, the retiring secretary of the international scientific committee of the conference. We also wish to welcome J. J. Chattot who is the incoming secretary.

Computational Fluid Dynamics 2004 Clinton Groth, David W. Zingg, 2006-09-27 Those interested in state of the art in computational fluid dynamics will find this publication a valuable source of reference. The contributions are drawn from The International Conference on Computational Fluid Dynamics ICCFD held in 2004. The conference is staged every two years and brings together physicists, mathematicians and engineers who review and share recent advances in mathematical and computational techniques for modeling fluid dynamics.

Hyperbolic Problems: Contributed talks Eitan Tadmor, Jian-Guo Liu, Athanasios E. Tzavaras, 2009-12-15 The International Conference on Hyperbolic Problems Theory, Numerics and Applications HYP2008 was held at the University of Maryland from June 9-13 2008. This was the twelfth meeting in the bi-annual international series of HYP conferences which originated in 1986 at Saint Etienne France and over the last twenty years has become one of the highest quality and most successful conference series in Applied Mathematics. This book, the second in a two-part volume, contains more than sixty articles based on contributed talks given at the conference. The articles are written by leading researchers as well as

promising young scientists and cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of hyperbolic PDEs This volume will bring readers to the forefront of research in this most active and important area in applied mathematics **Advances in Multiphysics Simulation and Experimental Testing of MEMS** Attilio Frangi, 2008 This volume takes a much needed multiphysical approach to the numerical and experimental evaluation of the mechanical properties of MEMS and NEMS The contributed chapters present many of the most recent developments in fields ranging from microfluids and damping to structural analysis topology optimization and nanoscale simulations The book responds to a growing need emerging in academia and industry to merge different areas of expertise towards a unified design and analysis of MEMS and NEMS

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