

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.

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Computational Fluid Dynamics Based on the Unified Coordinates reviews the relative advantages and drawbacks of Eulerian and Lagrangian. Computational fluid dynamics based on the unified coordinates [electronic resource]. Responsibility: Wai-How Hui, Kun Xu. Imprint: Berlin ; New York: Springer. 1 Computational Fluid Dynamics based on the Unified Coordinates Professor W.H. Hui (???) Emeritus Professor of Applied Mathematics University of. A unified coordinate system is introduced for computational fluid dynamics, used shock-capturing methods based on Eulerian coordinates, flow discontinuities. The Unified Coordinate System in Computational Fluid . flow based on various coordinate systems, pointing out their relative merits and short-.

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