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Autore	Kuby, Erich
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Navier-Stokes Equations for Compressible Flows: Finite-Volume Methods. C. Hartel, Turbulent Flows: Direct Numerical Simulation and Large-Eddy Simulation. T.B. Gatski, Turbulent Flows: Model Equations and Solution Methodology. D.J. Mavriplis, Mesh Generation and Adaptivity for Complex Geometries and Flows. Subject Index

Sommario/riassunto

This handbook covers computational fluid dynamics from fundamentals to applications. This text provides a well documented critical survey of numerical methods for fluid mechanics, and gives a state-of-the-art description of computational fluid mechanics, considering numerical analysis, computer technology, and visualization tools. The chapters in this book are invaluable tools for reaching a deeper understanding of the problems associated with the calculation of fluid motion in various situations: inviscid and viscous, incompressible and compressible, steady and unsteady, laminar and turbulent flows, as well as simple and complex geometries. Each chapter includes a related bibliography
Covers fundamentals and applications Provides a deeper understanding of the problems associated with the calculation of fluid motion
