

1. Record Nr.	UNINA9911093053103321
Titolo	Adaptive high-order methods in computational fluid dynamics / / editor, Z.J. Wang
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific, c2011
ISBN	9786613234704 9781283234702 128323470X 9789814313193 981431319X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (471 p.)
Collana	Advances in computational fluid dynamics ; ; v. 2
Altri autori (Persone)	WangZ. J
Disciplina	532.00285
Soggetti	Computational fluid dynamics Differential equations - Numerical solutions - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; CONTENTS; Chapter 1: Discontinuous Galerkin for Turbulent Flows Francesco Bassi, Lorenzo Botti, Alessandro Colombo, Antonio Ghidoni And Stefano Rebay; 1. Introduction; 2. DG Solution of the RANS and k-! Equations; 2.1. Governing equations; 2.1.1. Surface boundary condition for; 2.2. DG space discretization; 2.2.1. Orthonormal and hierarchical basis functions; 2.3. Time integration; 2.3.1. Linearly implicit Runge-Kutta schemes; 2.4. Shock-capturing approach; 3. Numerical Results; 3.1. L1T2 3-element airfoil; 3.2. ONERA M6 wing; 3.3. DPWIII W1 wing; 3.4. DLR-F6 wing-body configuration 3.5. NASA 65 sweep delta wing4. Final Remarks; Acknowledgments; References; Chapter 2: Massively Parallel Solution Techniques for Higher-Order Finite-Element Discretizations in CFD Laslo T. Diosady and David L. Darmofal; 1. Introduction; 2. Schwarz Methods; 2.1. The case of two subdomains; 2.2. The case of many subdomains; 2.3. Large scale CFD applications; 3. Schur Complement Methods; 3.1. An interface problem; 3.2. Classical substructuring methods; 3.3. Approximate factorizations; 4. Neumann-Neumann Methods; 4.1. BDDC and FETI-DP; 5. Numerical Results; References

Chapter 3: Error Estimation and hp-Adaptive Mesh Refinement for Discontinuous Galerkin Methods Tobias Leicht and Ralf Hartmann1. Introduction; 2. Flow Problem and Its Discretization; 3. Error Estimation and Local Error Indicators; 3.1. Single target quantities; 3.2. Multiple target quantities; 4. Adaptation Strategies; 4.1. Comparison of h- and p-type mesh refinement; 4.2. Combined hp-refinement; 4.3. hp-indicator in 1D; 4.4. hp-indicator in multiple dimensions and for systems of equations; 4.5. Anisotropic h-subdivision; 5. Adaptive Refinement Algorithm; 6. Numerical Results
6.1. Laminar subsonic flow around an airfoil6.2. Transonic flow around an airfoil; 6.3. Laminar flow around a delta wing; 6.4. L1T2 three element high lift configuration; 6.5. Subsonic turbulent flow around the DLR-F6 wing-body configuration; 7. Conclusion and Outlook; Acknowledgments; References; Chapter 4: A Runge-Kutta based Discontinuous Galerkin Method with Time Accurate Local Time Stepping Gregor J. Gassner, Florian Hindenlang and Claus-Dieter Munz; 1. Introduction; 2. General Formulation; 2.1. The semi discrete form; 2.2. The fully discrete form
2.3. The predictor-corrector formulation3. Beyond the Global Time Integration Paradigm; 3.1. Time-accurate local time stepping; 4. Results; 4.1. Time accuracy; 4.2. Accuracy for non-linear problems; 4.3. Application; 5. Conclusion; Acknowledgments; References; Chapter 5: High-Order Discontinuous Galerkin Methods for CFD Jaime Peraire and Per-Olof Persson; 1. Introduction; 2. Governing Equations; 2.1. The compressible Navier-Stokes equations; 2.2. Turbulence modeling; 2.3. Mapping-based ALE formulation for deformable domains; 2.3.1. The mapping; 2.3.2. Transformed equations
2.3.3. Geometric conservation law

Sommario/riassunto

This book consists of important contributions by world-renowned experts on adaptive high-order methods in computational fluid dynamics (CFD). It covers several widely used, and still intensively researched methods, including the discontinuous Galerkin, re

2. Record Nr.	UNISA996716286703316
Autore	BALLETTA, Francesco
Titolo	Un colpo mancino assestato al Mezzogiorno d'Italia : l'unificazione dell'emissione di cartamoneta nel 1926 / Francesco Balletta
Pubbl/distr/stampa	Napoli, : Arte tipografica, 2002
ISBN	88-87375-16-X
Descrizione fisica	150 p. ; 21 cm
Collana	Collana di studi, atti e documenti dell'Istituto italiano per la storia delle imprese ; 12
Disciplina	332.4945
Soggetti	Banconote - Emissione - Italia - 1926
Collocazione	XVI.8. 950
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia