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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
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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