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Numerical Flow Simulation III

CNRS-DFG Collaborative Research Programme Results 2000–2002

Ernst Heinrich Hirschel (Ed.)



Norbert Kroll, Heribert Bieler, Herman Deconinck, Vincent Couaillier, Harmen van der Ven, Kaare Sorensen

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institutions in Europe to improve the physical understanding of the timedependent effects of side wind forces train passing and pressure waves in tunnels The goal was to find efficient and economically satisfying solutions to these problems by simultaneously regarding high speed rolling stock infrastructure and operating conditions New Results in Numerical and Experimental Fluid Mechanics V Hans Josef Rath, Carsten Holze, Hans-Joachim Heinemann, Rolf Henke, Heinz Hönlinger, 2007-12-10 This volume collects contributions to the 14th Symposium of the STAB German Aerospace Aerodynamics Association The association involves German scientists and engineers from universities research establishments and industry who are doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but for other applications too The volume gives a broad overview of ongoing work in Germany in this field ADIGMA - A European Initiative on the Development of Adaptive Higher-Order Variational Methods for Aerospace Applications Norbert Kroll, Heribert Bieler, Herman Deconinck, Vincent Couaillier, Harmen van der Ven, Kaare Sorensen, 2010-09-18 This volume contains results gained from the EU funded 6th Framework project ADIGMA Adaptive Higher order Variational Methods for Aerodynamic Applications in Industry The goal of ADIGMA was the development and utilization of innovative adaptive higher order methods for the compressible flow equations enabling reliable mesh independent numerical solutions for large scale aerodynamic applications in aircraft industry The ADIGMA consortium was comprised of 22 organizations which included the main European aircraft manufacturers the major European research establishments and several universities all with well proven expertise in Computational Fluid Dynamics CFD The book presents an introduction to the project exhibits partners methods and approaches and provides a critical assessment of the newly developed methods for industrial aerodynamic applications. The best numerical strategies for integration as major building blocks for the next generation of industrial flow solvers are identified Computational Science and High Performance Computing III Egon Krause, Yurii I. Shokin, Nina Shokina, 2008-10-12 This volume contains 18 contributions to the Third Russian German Advanced Research Workshop on Computational Science and High Performance Computing presented in July 2007 at Novosibirsk Russia The workshop was organized jointly by the High Performance Computing Center Stuttgart HLRS and the Institute of Computational Technologies of the Siberian Branch of the Russian Academy of Sciences ICT SB RAS The contributions range from computer science mathematics and high performance computing to applications in mechanical and aerospace engineering They show a wealth of theoretical work and simulation experience with a potential of bringing together theoretical mathematical modelling and usage of high performance computing systems presenting the state of the art of computational technologies FLOMANIA - A European Initiative on Flow Physics Modelling Werner Haase, Bertrand Aupoix, Ulf Bunge, Dieter Schwamborn, 2006-10-02 This volume offers of the EU funded 5th Framework project FLOMANIA Flow Physics Modelling An Integrated Approach The book presents an introduction to the project exhibits partners methods and approaches and provides comprehensive reports of all applications treated in the

project A complete chapter is devoted to a description of turbulence models used by the partners together with a section on lessons learned accompanied by a comprehensive list of references MEGAFLOW - Numerical Flow Simulation for Aircraft Design Norbert Kroll, Jens K. Fassbender, 2006-10-02 The aerospace industry increasingly relies on advanced numerical simulation tools in the early design phase This volume provides the results of a German initiative which combines many of the CFD development activities from the German Aerospace Center DLR universities and aircraft industry Numerical algorithms for structured and hybrid Navier Stokes solvers are presented in detail The capabilities of the software for complex industrial applications are demonstrated Numerical Simulation of Turbulent Flows and Noise Generation

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