Numerical Flow Simulation III

CNRS-DFG Collaborative Research Programme
Results 2000–2002

Ernst Heinrich Hirschel (Ed.)

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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 *TRANSAERO* Burkhard Schulte-Werning,2002-04-24 This volume entitled contains the results obtained by a symposium which took place in Paris France on May 04 05 1999 hosted by the International Union of Railways UIC This symposium was organised within the framework of the Brite Euram project TRANSAERO The TRANSAERO project bundles the expertise of three railway companies and eight universities and research 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 *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** Christophe Brun,Daniel Juvé,Michael Manhart,Claus-Dieter Munz,2009-03-07 Large Eddy Simulation LES is a high fidelity approach to the numerical simulation of turbulent flows Recent developments have shown LES to be able to predict aerodynamic noise generation and propagation as well as the turbulent flow by means of either a hybrid or a direct approach This book is based on the results of two French German research groups working on LES simulations in complex geometries and noise generation in turbulent flows The results provide insights into modern prediction approaches for turbulent flows and noise generation mechanisms as well as their use for novel noise reduction concepts Unsteady Effects of Shock Wave induced Separation Piotr Doerffer,Charles Hirsch,Jean-Paul Dussauge,Holger Babinsky,George N. Barakos,2010-11-25 This volume contains description of experimental and numerical results obtained in the UFAST project The goal of the project was to generate experiment data bank providing unsteady characteristics of the shock boundary layer interaction The experiments concerned basic reference cases and the cases with application of flow control devices Obtained new data bank have been used for the comparison with available simulation techniques starting from RANS through URANS LES and hybrid RANS LES methods New understanding of flow physics as well as ability of different numerical methods in the prediction of such unsteady flow phenomena will be discussed **Progress in Hybrid RANS-LES Modelling** Shia-Hui Peng,Piotr Doerffer,Werner Haase,2010-09-17 Hybrid modelling of turbulent flows combining RANS and LES techniques has received increasing attention over the past decade to fill the gap between U RANS and LES computations in aerodynamic applications at industrially relevant Reynolds numbers With the advantage of hybrid RANS LES modelling approaches being considerably more computationally efficient than full LES and more accurate than U RANS particularly for unsteady aerodynamic flows has motivated numerous research and development activities These activities have been increasingly stimulated by the provision of modern computing facilities The present book contains the contributions presented at the Third Symposium on Hybrid RANS LES Methods held in Gdansk Poland 10 12 June 2009 To a certain extent this conference was a continuation of the first symposium taking place in Stockholm Sweden 2005 and the second in Corfu Greece 2007 Motivated by the extensive interest in the research community the papers presented at the Corfu symposium were published by Springer in the book entitled Advances in Hybrid RANS LES Modelling in Notes on Numerical Fluid Mechanics and

Multidisciplinary Design Vol 97 At the Gdansk symposium along with four invited keynotes given respectively by S Fu U Michel M Sillen and P Spalart another 28 papers were presented on the following topics Unsteady RANS LES Improved DES Methods Hybrid RANS LES Methods DES versus URANS and other Hybrid Methods Modelli related Numerical Issues and Industrial Applications After the symposium all full papers have been further reviewed and revised for publication in the present book   **Turbulence and Interactions** Michel Deville,Thien-Hiep Lê,Pierre Sagaut,2010-09-28 This volume contains six keynote lectures and 44 contributed papers of the TI 2009 conference that was held in Saint Luce La Martinique May 31 June 5 2009 These lectures address the latest developments in direct numerical simulations large eddy simulations compressible turbulence coherent structures droplets two phase flows etc The present monograph is a snapshot of the state of the art in the field of turbulence with a broad view on theory experiments and numerical simulations   *Computational Science and High Performance Computing II* Egon Krause,Yurii I. Shokin,Nina Shokina,2006-06-18 This volume contains 27 contributions to the Second Russian German Advanced Research Workshop on Computational Science and High Performance Computing presented in March 2005 at Stuttgart Germany Contributions range from computer science mathematics and high performance computing to applications in mechanical and aerospace engineering   100 Volumes of 'Notes on Numerical Fluid Mechanics' Ernst Heinrich Hirschel,Egon Krause,2009-05-19 In a book that will be required reading for engineers physicists and computer scientists the editors have collated a number of articles on fluid mechanics written by some of the world s leading researchers and practitioners in this important subject area   **New Developments in Computational Fluid Dynamics** Kozo Fujii,Kazuhiro Nakahashi,Shigeru Obayashi,Satoko Komurasaki,2006-01-05 Contains 20 papers presented at the Sixth International Nobeyama Workshop on the New Century of Computational Fluid Dynamics Nobeyama Japan April 21 24 2003 These papers cover computational electromagnetics astrophysical topics CFD research and applications in general large eddy simulation mesh generation topics visualization and more   MEGADESIGN and MegaOpt - German Initiatives for Aerodynamic Simulation and Optimization in Aircraft Design Norbert Kroll,Dieter Schwamborn,Klaus Becker,Herbert Rieger,Frank Thiele,2009-11-18 This volume contains results of the German CFD initiative MEGADESIGN which combines CFD development activities from DLR universities and aircraft industry Based on the DLR flow solvers FLOWer and TAU the main objectives of the four years project is to ensure the prediction accuracy with a guaranteed error bandwidth for certain aircraft configurations at design conditions to reduce the simulation turn around time for large scale applications significantly to improve the reliability of the flow solvers for full aircraft configurations in the complete flight regime to extend the flow solvers to allow for multidisciplinary simulations and to establish numerical shape optimization as a vital tool within the aircraft design process This volume highlights recent improvements and enhancements of the flow solvers as well as new developments with respect to aerodynamic and multidisciplinary shape optimization Improved numerical simulation capabilities are demonstrated by several industrial applications   **LESFOIL:**

Large Eddy Simulation of Flow Around a High Lift Airfoil Lars Davidson,Davor Cokljat,Jochen Fröhlich,Michael A. Leschziner,Chris Mellen,Wolfgang Rodi,2012-09-22 Large Eddy Simulation is a relatively new and still evolving computatio nal strategy for predicting turbulent flows It is now widely used in research to elucidate fundamental interactions in physics of turbulence to predict phe nomena which are closely linked to the unsteady features of turbulence and to create data bases against which statistical closure models can be asses sed However its applicability to complex industrial flows to which statisti cal models are applied routinely has not been established with any degree of confidence There is in particular a question mark against the prospect of LES becoming an economically tenable alternative to Reynolds averaged N avier Stokes methods at practically high Reynolds numbers and in complex geometries Aerospace flows pose particularly challenging problems to LES because of the high Reynolds numbers involved the need to resolve accura tely small scale features in the thin and often transitional boundary layers developing on aerodynamic surfaces When the flow also contains a separated region due to high incidence say the range and disparity of the influen tial scales to be resolved is enormous and this substantially aggravates the problems of resolution and cost It is just this combination of circumstances that has been at the heart of the project LESFOIL to which this book is devoted The project combined the efforts resources and expertise of 9 partner organisations 4 universities 3 industrial companies and 2 research institu tes **Advances in High Performance Computing and Computational Sciences** Yurii I. Shokin,Nargozy Danaev,Murat Orunkhanov,Nina Shokina,2006-09-25 This volume contains contributions to the First Kazakh German Advanced Research Workshop on Computational Science and High Performance Computing presented in September 2005 at Almaty Kazakhstan The contributions show the potential of bringing together theoretical mathematical modelling and powerful high performance computing systems **Recent Results in Laminar-Turbulent Transition** Siegfried Wagner,Markus Kloker,Ulrich Rist,2004 Methodic investigations of laminar turbulent transition in wall bounded she ar flows under controlled conditions are essential for untangling the various complex phenomena of the transition process occurring in flows at practical conditions They allow understanding of the instability processes of the la minar flow and thus enable the development of tools for flow control On the one hand the laminar flow regime can be extended by delaying transition to reduce viscous drag and on the other hand large scale flow disturbances or transition can be forced in order to enhance momentum and mass ex change Thus flow separation can be prevented or mixing of fuel and air in combustion engines enhanced for instance The DFG Verbund Schwerpunktprogramm Transition a cooperative priority research program of universities research establishments and indu stry in Germany has been launched in April 1996 with the aim to explore transition by a coordinated use development and validation of advanced experimental techniques and theoretical numerical simulation methods bin ding together all the appropriate resources available in Germany At the very beginning of the six year research period specifically selected test problems were to be investigated by various theoretical and experimental methods to identify and possibly rule out inadequate numerical or

experimental methods With respect to experiments it was planned to use multi sensor surface measuring techniques the infrared measuring technique and particle image velocimetry PlV in addition to hot wire techniques to get instantaneous images of flows in sections on surfaces or within the complete flow field

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