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New Results in Numerical and Experimental Fluid Mechanics IV

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New Results In Numerical And Experimental Fluid Mechanics Iv

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New Results in Numerical and Experimental Fluid Mechanics IV Christian Breitsamter, Boris Laschka, Hans-Joachim Heinemann, Reinhard Hilbig, 2012-08-13 This volume contains 59 papers presented at the 13th Symposium of STAB German Aerospace Aerodynamics Association In this association all those German scientists and engineers from universities research establishments and industry are involved who are doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but also in other applications Many of the contributions give results from federal and European Union sponsored projects The volume gives a broad overview of the ongoing work in this field in Germany Covered are flow problems of high and low aspect ratio wings and bluff bodies laminar flow control and transition hypersonic flows transition and fluid mechanical modelling LES and DNS numerical simulation aeroelasticity measuring techniques and propulsion flows

New Results in Numerical and Experimental Fluid Mechanics XII Andreas Dillmann, Gerd Heller, Ewald Krämer, Claus Wagner, Cameron Tropea, Suad Jakirlić, 2019-09-26 This book gathers contributions to the 21st biannual symposium of the German Aerospace Aerodynamics Association STAB and the German Society for Aeronautics and Astronautics DGLR The individual chapters reflect ongoing research conducted by the STAB members in the field of numerical and experimental fluid mechanics and aerodynamics mainly for but not limited to aerospace applications and cover both nationally and EC funded projects Special emphasis is given to collaborative research projects conducted by German scientists and engineers from universities research establishments and industries By addressing a number of cutting edge applications together with the relevant physical and mathematics fundamentals the book provides readers with a comprehensive overview of the current research work in the field The book's primary emphasis is on aerodynamic research in aeronautics and astronautics and in ground transportation and energy as well

New Results in Numerical and Experimental Fluid Mechanics VIII Andreas Dillmann, Gerd Heller, Hans-Peter Kreplin, Wolfgang Nitsche, Inken Peltzer, 2012-12-27 This volume contains the contributions to the 17th Symposium of STAB German Aerospace Aerodynamics Association STAB includes German scientists and engineers from universities research establishments and industry doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but also for other applications Many of the contributions collected in this book present results from national and European Community sponsored projects This volume gives a broad overview of the ongoing work in this field in Germany and spans a wide range of topics airplane aerodynamics multidisciplinary optimization and new configurations hypersonic flows and aerothermodynamics flow control drag reduction and laminar flow control rotorcraft aerodynamics aeroelasticity and structural dynamics numerical simulation experimental simulation and test techniques aeroacoustics as well as the new fields of biomedical flows convective flows aerodynamics and acoustics of high speed trains

New Results in Numerical and Experimental Fluid Mechanics Horst Körner, 1997 *Computational Science and High Performance Computing IV*

Egon Krause, Yuri Shokin, Michael M. Resch, Dietmar Kröner, Nina Shokina, 2011-01-21 This volume contains 27 contributions to the Forth Russian German Advanced Research Workshop on Computational Science and High Performance Computing presented in October 2009 in Freiburg Germany The workshop was organized jointly by the High Performance Computing Center Stuttgart HLRS the Institute of Computational Technologies of the Siberian Branch of the Russian Academy of Sciences ICT SB RAS and the Section of Applied Mathematics of the University of Freiburg IAM Freiburg 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

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

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

Summary of Flow Modulation and Fluid-Structure Interaction Findings Wolfgang Schröder, 2010-05-16 The Collaborative Research Center SFB 401 Flow Modulation and Fluid Structure Interaction at Airplane Wings investigates numerically and experimentally fundamental problems of very high capacity aircraft having large elastic wings This issue summarizes the findings of the 12 year research program at RWTH Aachen University which was funded by the Deutsche Forschungsgemeinschaft DFG from 1997 through 2008 The research program covered the following three main topics of large transport aircraft i Model flow wakes and vortices of airplanes in high lift configuration ii Numerical tools for large scale adaptive flow simulation based on multiscale analysis and a parametric mapping concept for grid generation and iii

Validated computational design tools based on direct aeroelastic simulation with reduced structural models

Fundamental Medical and Engineering Investigations on Protective Artificial Respiration Michael

Klaas, Edmund Koch, Wolfgang Schröder, 2011-04-11 This volume contains a collection of papers from the research program Protective Artificial Respiration PAR In 2005 the German Research Association DFG launched the research program PAR which is a joint initiative of medicine and fluid mechanics The main long term objective of this program is the development of a more protective artificial respiratory system to reduce the physical stress of patients undergoing artificial respiration To satisfy this goal 11 projects have been defined In each of these projects scientists from medicine and fluid mechanics do collaborate in several experimental and numerical investigations to improve the fundamental knowledge on respiration and to develop a more individual artificial breathing concept

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

Nature-Inspired Fluid Mechanics Cameron Tropea, Horst Bleckmann, 2012-02-22 This book is the closing report of the national priority program Nature Inspired Fluid Mechanics Schwerpunktprogramm SPP 1207 Strömungsbeeinflussung in der Natur und Technik Nature inspired fluid mechanics is one subset of biomimetics a discipline which has received increased attention over the last decade with numerous faculties and degree courses devoted solely to exploring nature as a model for engineering applications To save locomotion energy evolution has optimized the design of animals such that friction loss is minimized In addition to many morphological adaptations animals that are often exposed to water or air currents have developed special behaviors that allow them to use the energy contained in air or water fluctuations for energy savings Such flow manipulation and control is not only important for many animals but also for many engineering applications Since living beings have been optimized by several million years of evolution it is very likely that many engineering disciplines can profit from the study of systems found in nature Curiously there has been little serious cross disciplinary work and information exchange on the topic of fluid dynamics and flow control and this was the initial motivation to establish this national priority program

Computational Fluid Dynamics 2004 Clinton Groth, David W. Zingg, 2006-09-27 Those interested in state of the art in computational fluid dynamics will find this publication a valuable source of reference The contributions are drawn from The International Conference on Computational Fluid Dynamics ICCFD held in 2004 The conference is staged every two years and brings together physicists mathematicians and engineers who review and share recent advances in mathematical and computational techniques for modeling fluid dynamics

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

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

Noise and Vibration Mitigation for Rail Transportation Systems Tatsuo Maeda, Pierre-Etienne Gautier, Carl Hanson, Brian Hemsworth, James Nelson, Burkhard Schulte-Werning, David Thompson, Paul Vos, 2011-10-30 This volume contains the contributions to the 10th International Workshop on Railway Noise held October 18 22 2010 in Nagahama Japan organized by the Railway Technical Research Institute RTRI Japan With 11 sessions and 3 poster sessions the workshop featured presentations by international leaders in the field of railway noise and vibration All subjects relating to 1 prospects legal regulation and perception 2 wheel and rail noise 3 structure borne noise and squeal noise 4 ground borne vibration 5 aerodynamic noise and micro pressure waves from tunnel portals 6 interior noise and sound barriers and 7 prediction measurements and monitoring are addressed here This book is a useful state of the art reference for scientists and engineers involved in solving environmental problems of railways

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

RESPACE - Key Technologies for Reusable Space Systems Ali Gülhan, 2008-01-24 A few years ago the Helmholtz Association HGF consisting of 15 research Institutions including the German Aerospace Center DLR started a network research program called Virtual Institutes The basic idea of this program was to establish research groups formed by Helmholtz research centers and universities to study and develop methods or technologies for future applications and educate young scientists It should also enable and encourage the partners of this Virtual Institute after 3 years funding to continue their cooperation in other programs Following this HGF request and chance the DLR Windtunnel Department of the Institute of Aerodynamics and Flow Technology took the initiative and established a network with other DLR institutes and German universities RWTH Aachen University of Stuttgart and Technical University Munich The main goal of this network was to share the experience in system analysis aerodynamics and material science for improving the understanding and applicability of some key technologies for future reusable space transportation systems Therefore the virtual institute was named RESPACE Key Technologies for Re Usable Space Systems

Advances in Hybrid RANS-LES Modelling Shia-Hui Peng, Werner Haase, 2008-01-24 Turbulence modelling has long been and will remain one of the most important topics in turbulence research challenging scientists and engineers in the academic world and in the industrial society Over the past decade Detached Eddy Simulation DES and other hybrid RANS LES methods have received increasing attention from the turbulence research community as well as from industrial CFD engineers Indeed as an engineering modelling approach hybrid RANS LES methods have acquired a remarkable profile in modelling turbulent flows of industrial interest in relation to for example transportation energy production and the environment The advantage exploited with hybrid RANS LES modelling approaches being tentially more computationally efficient than LES and more accurate than unsteady RANS has motivated numerous research and development activities These activities together with industrial applications have been further facilitated over the recent years by the rapid development of modern computing resources As a European initiative the EU project DESider Detached Eddy Simulation for Industrial Aerodynamics 2004 2007 has been one of the earliest and most systematic international R D effort with its focus on development improvement and applications of a variety of existing and new hybrid RANS LES modelling approaches as well as on related numerical issues In association with the DESider project two subsequent international symposia on hybrid RANS LES methods have been arranged in Stockholm Sweden 2005 and in Corfu Greece 2007 respectively The present book is a result of the Second Symposium on Hybrid RANS LES Methods held in Corfu Greece 17 18 June 2007

New Results in Numerical and Experimental Fluid Mechanics XIII Andreas Dillmann, Gerd Heller, Ewald Krämer, Claus Wagner, 2021-07-13 This book offers timely insights into research on

numerical and experimental fluid mechanics and aerodynamics mainly for but not limited to aerospace applications It reports on findings by members of the STAB German Aerospace Aerodynamics Association and DGLR German Society for Aeronautics and Astronautics and covers both nationally and EC funded projects Continuing on the tradition of the previous volumes the book highlights innovative solutions promoting translation from fundamental research to industrial applications It addresses academics and professionals in the field of aeronautics astronautics ground transportation and energy alike

Noise and Vibration Mitigation for Rail Transportation Systems Burkhard Schulte-Werning, David Thompson, Pierre-Etienne Gautier, Carl Hanson, Brian Hemsworth, James Nelson, Tatsuo Maeda, Paul de Vos, 2008-04-10 This book contains the presentations given during the 9th International Workshop on Railway Noise IWRN9 which took place in Munich Feldafing Germany on 4th to 8th September 2007 This workshop was organised by the Acoustics and Vibration Department of DB Systemtechnik the technical engineering office of Deutsche Bahn AG More than 120 participants from 17 countries followed the invitation to the workshop This great response showed the continuing interest in an important topic of railway technology and offered the opportunity to present the recent results of intense worldwide activities to the international community of railway noise and vibration experts and to share knowledge as well as experience Because an efficient transportation network is indispensable to handle the general mobility increase and road networks have reached their socio ecological limits the railway network is to be strengthened For example the European Commission has given distinct political signals to get more passengers onto the railways This policy represents a clear challenge for the next few decades not only for European railway companies the considerable increase in mobility will lead to a doubling of the railway traffic volume within the next 10 to 20 years To reduce the environmental impact the Directive on the Assessment and Management of Environmental Noise has been put into force in Europe aiming at avoiding preventing or reducing harmful effects of environmental noise on human health

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