

**NOTES ON NUMERICAL FLUID
MECHANICS · VOLUME 75**

Numerical Flow Simulation II

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Programmes Results
1998 – 2000

by Ernst Heinrich Hirschel (Ed.)



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Numerical Flow Simulation Ii Cnrsdfg Collaborative Research Programme Results 1998

**Yurii I. Shokin, Nargozy Danaev, Murat
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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 **Advances in High**

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Flow-Structure Interaction Werner Haase, Vittorio Selmin, Bengt Winzell, 2013-04-17 Aircraft design processes require extensive work in the area of both aerodynamics and structure forming an environment for aeroelasticity investigations Present and future designs of European aircraft are characterized by an ever increasing aircraft size and performance Strong weight saving requirements are met by introduction of new materials leading to more flexible structure of the aircraft Consequently aeroelastic phenomena such as vortex induced aeroelastic oscillations and moving shock waves can be predominant and may have a significant effect on the aircraft performance Hence the ability to estimate reliable margins for aeroelastic instabilities flutter or dynamic loads buffeting is a major concern to the aircraft designer As modern aircrafts have wing bending modes with frequencies that are low enough to influence the flight control system demands on unsteady aerodynamics and structural analysis to predict flight control effectiveness and riding comfort for passengers are extremely high Therefore the aircraft industries need an improved capacity of robust accurate and reliable prediction methods in the coupled aeroelastic flight mechanics and loads disciplines In particular it is necessary to develop improve and calibrate the numerical tools in order to predict with high level of accuracy and capability complex and non classical aeroelastic

phenomena including aerodynamic non linearities such as shock waves and separation as well as structural non linearities e.g control surface free play Nowadays robust methods for structural analysis and linearised unsteady aerodynamics are coupled and used by the aircraft industry to computationally clear a new design from flutter *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

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