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ERCOFTAC Series

Quality and Reliability of Large-Eddy Simulations II



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Lingjun Ying



Quality And Reliability Of Large Eddy Simulations Ii Ercoftac Series:

Quality and Reliability of Large-Eddy Simulations II Maria Vittoria Salvetti, Bernard Geurts, Johan Meyers, Pierre Sagaut, 2010-11-03 The second Workshop on Quality and Reliability of Large Eddy Simulations QLES2009 was held at the University of Pisa from September 9 to September 11 2009 Its predecessor QLES2007 was organized in 2007 in Leuven Belgium The focus of QLES2009 was on issues related to predicting assessing and assuring the quality of LES The main goal of QLES2009 was to enhance the knowledge on error sources and on their interaction in LES and to devise criteria for the prediction and optimization of simulation quality by bringing together mathematicians physicists and engineers and providing a platform specifically addressing these aspects for LES Contributions were made by leading experts in the field The present book contains the written contributions to QLES2009 and is divided into three parts which reflect the main topics addressed at the workshop i SGS modeling and discretization errors ii Assessment and reduction of computational errors iii Mathematical analysis and foundation for SGS modeling Quality and Reliability of Large-Eddy Simulations Johan Meyers, Bernard Geurts, Pierre Sagaut, 2008-06-26 Computational resources have developed to the level that for the first time it is becoming possible to apply large eddy simulation LES to turbulent flow problems of realistic complexity Many examples can be found in technology and in a variety of natural flows This puts issues related to assessing assuring and predicting the quality of LES into the spotlight Several LES studies have been published in the past demonstrating a high level of accuracy with which turbulent flow predictions can be attained without having to resort to the excessive requirements on computational resources imposed by direct numerical simulations However the setup and use of turbulent flow simulations requires a profound knowledge of fluid mechanics numerical techniques and the application under consideration The susceptibility of large eddy simulations to errors in modelling in numerics and in the treatment of boundary conditions can be quite large due to nonlinear accumulation of different contributions over time leading to an intricate and unpredictable situation A full understanding of the interacting error dynamics in large eddy simulations is still lacking To ensure the reliability of large eddy simulations for a wide range of industrial users the development of clear standards for the evaluation prediction and control of simulation errors in LES is summoned The workshop on Quality and Reliability of Large Eddy Simulations held October 22 24 2007 in Leuven Belgium QLES2007 provided one of the first platforms specifically addressing these aspects of LES **Microfluidics and Nanofluidics Handbook, 2 Volume Set** Sushanta K. Mitra, Suman Chakraborty, 2011-09-20 A comprehensive two volume handbook on Microfluidics and Nanofluidics this text covers fundamental aspects fabrication techniques introductory materials on microbiology and chemistry measurement techniques and applications with special emphasis on the energy sector Each chapter begins with introductory coverage to a subject and then narrows in on advanced techniques and concepts thus making it valuable to students and practitioners The author pays special attention to applications of microfluidics in the energy sector and provides insight into the world of opportunities

nanotechnology has to offer Figures tables and equations to illustrate concepts Computational Fluid Dynamics Frederic Magoules, 2011-08-24 Exploring new variations of classical methods as well as recent approaches appearing in the field Computational Fluid Dynamics demonstrates the extensive use of numerical techniques and mathematical models in fluid mechanics It presents various numerical methods including finite volume finite difference finite element spectral smoothed particle hydrodynamics SPH mixed element volume and free surface flow Taking a unified point of view the book first introduces the basis of finite volume weighted residual and spectral approaches The contributors present the SPH method a novel approach of computational fluid dynamics based on the mesh free technique and then improve the method using an arbitrary Lagrange Euler ALE formalism They also explain how to improve the accuracy of the mesh free integration procedure with special emphasis on the finite volume particle method FVPM After describing numerical algorithms for compressible computational fluid dynamics the text discusses the prediction of turbulent complex flows in environmental and engineering problems The last chapter explores the modeling and numerical simulation of free surface flows including future behaviors of glaciers The diverse applications discussed in this book illustrate the importance of numerical methods in fluid mechanics With research continually evolving in the field there is no doubt that new techniques and tools will emerge to offer greater accuracy and speed in solving and analyzing even more fluid flow problems **Progress in Hybrid RANS-LES**

Modelling Yannick Hoarau, Shia-Hui Peng, Dieter Schwaborn, Alistair Revell, Charles Mockett, 2019-11-01 This book gathers the proceedings of the Seventh Symposium on Hybrid RANS LES Methods which was held on September 17 19 in Berlin Germany The different chapters written by leading experts reports on the most recent developments in flow physics modelling and gives a special emphasis to industrially relevant applications of hybrid RANS LES methods and other turbulence resolving modelling approaches The book addresses academic researchers graduate students industrial engineers as well as industrial R D managers and consultants dealing with turbulence modelling simulation and measurement and with multidisciplinary applications of computational fluid dynamics CFD such as flow control aero acoustics aero elasticity and CFD based multidisciplinary optimization It discusses in particular advanced hybrid RANS LES methods Further topics include wall modelled Large Eddy Simulation WMLES methods embedded LES Lattice Boltzmann methods and turbulence resolving applications and a comparison of the LES methods with both hybrid RANS LES and URANS methods Overall the book provides readers with a snapshot on the state of the art in CFD and turbulence modelling with a special focus to hybrid RANS LES methods and their industrial applications **Direct and Large-Eddy Simulation X** Dimokratis G.E.

Grigoriadis, Bernard J. Geurts, Hans Kuerten, Jochen Fröhlich, Vincenzo Armenio, 2017-10-06 This book addresses nearly all aspects of the state of the art in LES DNS of turbulent flows ranging from flows in biological systems and the environment to external aerodynamics domestic and centralized energy production combustion propulsion as well as applications of industrial interest Following the advances in increased computational power and efficiency several contributions are devoted

to LES DNS of challenging applications mainly in the area of turbomachinery including flame modeling combustion processes and aeroacoustics The book includes work presented at the tenth Workshop on Direct and Large Eddy Simulation DLES 10 which was hosted in Cyprus by the University of Cyprus from May 27 to 29 2015 The goal of the workshop was to establish a state of the art in DNS LES and related techniques for the computation and modeling of turbulent and transitional flows The book is of interest to scientists and engineers both in the early stages of their career and at a more senior level *Direct and Large-Eddy Simulation VII* Vincenzo Armenio, Bernard Geurts, Jochen Fröhlich, 2010-04-28 After Surrey in 1994 Grenoble in 1996 Cambridge in 1999 Enschede in 2001 Munich in 2003 and Poitiers in 2005 the 7th Workshop DLES7 will be held in Trieste again under the auspices of ERCOFTAC Following the spirit of the series the goal of this latest workshop is to establish a state of the art of DNS and LES techniques for the computation and modeling of transitional turbulent flows covering a broad scope of topics such as aerodynamics acoustics combustion multiphase flows environment geophysics and bio medical applications This gathering of specialists in the field should once again be a unique opportunity for discussions about the more recent advances in the prediction understanding and control of turbulent flows in academic or industrial situations **Proceedings of the Workshop on Diurnal Cycles and the Stable Boundary Layer**, 2012 Flow and Combustion in Advanced Gas Turbine Combustors Johannes Janicka, AMSINI SADIKI, Michael Schäfer, Christof Heeger, 2012-10-29 With regard to both the environmental sustainability and operating efficiency demands modern combustion research has to face two main objectives the optimization of combustion efficiency and the reduction of pollutants This book reports on the combustion research activities carried out within the Collaborative Research Center SFB 568 Flow and Combustion in Future Gas Turbine Combustion Chambers funded by the German Research Foundation DFG This aimed at designing a completely integrated modeling and numerical simulation of the occurring very complex coupled and interacting physico chemical processes such as turbulent heat and mass transport single or multi phase flows phenomena chemical reactions combustion and radiation able to support the development of advanced gas turbine chamber concepts Direct and Large Eddy Simulation XII Manuel García-Villalba, Hans Kuerten, Maria Vittoria Salvetti, 2020-05-09 This book gathers the proceedings of the 12th instalment in the bi annual Workshop series on Direct and Large Eddy Simulation DLES which began in 1994 and focuses on modern techniques used to simulate turbulent flows based on the partial or full resolution of the instantaneous turbulent flow structure With the rapidly expanding capacities of modern computers this approach has attracted more and more interest over the years and will undoubtedly be further enhanced and applied in the future Hybrid modelling techniques based on a combination of LES and RANS approaches also fall into this category and are covered as well The goal of the Workshop was to share the state of the art in DNS LES and related techniques for the computation and modelling of turbulent and transitional flows The respective papers highlight the latest advances in the prediction understanding and control of turbulent flows in academic and industrial applications

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