Elements of direct and large-eddy simulation

Bernard J. Geurts

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    <u>Elements of Direct and Large-eddy Simulation</u> Bernard Geurts,2004 Geurts U of Twente explains direct and large eddy simulations of turbulent flow focusing on how to capture the primary features of unsteady flow through computation rather than on a complete statistical modeling The approach incorporates elements of numerical and mathematical physical modeling   **Direct and Large-Eddy Simulation VI** E. Lamballais,Rainer Friedrich,Bernard J. Geurts,Olivier Métais,2006-10-19 The sixth ERCOFTAC Workshop on Direct and Large Eddy Simulation DLES 6 was held at the University of Poitiers from September 12 14 2005 Following the tradition of previous workshops in the DLES series this edition has reflected the state of the art of numerical simulation of transitional and turbulent flows and provided an active forum for discussion of recent developments in simulation techniques and understanding of flow physics   *Direct and Large-Eddy Simulation* Bernard J. Geurts,2022-12-05 This book presents a comprehensive overview of the mathematics and physics behind the simulation of turbulent flows and discusses in detail i the phenomenology of turbulence in fluid dynamics ii the role of direct and large eddy simulation in predicting these dynamics iii the multiple considerations underpinning subgrid modelling and iv the issue of validation and reliability resulting from interacting modelling and numerical errors   *Direct and Large-Eddy Simulation* Bernard J. Geurts,2022-12-05 This book presents a comprehensive overview of the mathematics and physics behind the simulation of turbulent flows and discusses in detail i the phenomenology of turbulence in fluid dynamics ii the role of direct and large eddy simulation in predicting these dynamics iii the multiple considerations underpinning subgrid modelling and iv the issue of validation and reliability resulting from interacting modelling and numerical errors   <u>Direct and Large-Eddy Simulation V</u> Rainer Friedrich,Bernard Geurts,Olivier Métais,2004-04-30 The fifth ERCOFfAC workshop Direct and Large Eddy Simulation 5 DLES 5 was held at the Munich University of Technology August 27 29 2003 It is part of a series of workshops that originated at the University of Surrey in 1994 with the intention to provide a forum for presentation and dis cussion of recent developments in the field of direct and large eddy simula tion Over the years the DLES series has grown into a major international venue focussed on all aspects of DNS and LES but also on hybrid methods like RANSILES coupling and detached eddy simulation designed to provide reliable answers to technical flow problems at reasonable computational cost DLES 5 was attended by 111 delegates from 15 countries Its three day pro gramme covered ten invited lectures and 63 original contributions partially pre sented in parallel sessions The workshop was financially supported by the fol lowing companies institutions and organizations ANSYS Germany GmbH AUDI AG BMW Group ERCOFfAC FORTVER Bavarian Research Asso ciation on Combustion JM BURGERS CENTRE for Fluid Dynamics Their help is gratefully acknowledged The present Proceedings contain the written versions of nine invited lectures and fifty nine selected and reviewed contributions which are organized in four parts 1 Issues in LES modelling and numerics 2 Laminar turbulent transition 3 Turbulent flows involving complex physical phenomena 4 Turbulent flows in complex geometries and in

technical applications   Direct and Large Eddy Simulation Maria Vittoria Salvetti,Jochen Fröhlich,Bernard J. Geurts,J. G. M. Kuerten,2018   **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 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   **Numerical Techniques for Direct and Large-Eddy Simulations** Xi Jiang,Choi-Hong Lai,2016-04-19 Compared to the traditional modeling of computational fluid dynamics direct numerical simulation DNS and large eddy simulation LES provide a very detailed solution of the flow field by offering enhanced capability in predicting the unsteady features of the flow field In many cases DNS can obtain results that are impossible using any other me   Direct and Large-Eddy Simulation XI Maria Vittoria Salvetti,Vincenzo Armenio,Jochen Fröhlich,Bernard J. Geurts,Hans Kuerten,2019-02-02 This book gathers the proceedings of the 11th workshop on Direct and Large Eddy Simulation DLES which was held in Pisa Italy in May 2017 The event focused on modern techniques for simulating turbulent flows based on the partial or full resolution of the instantaneous turbulent flow structures as Direct Numerical Simulation DNS Large Eddy Simulation LES or hybrid models based on a combination of LES and RANS approaches In light of the growing capacities of modern computers these approaches have been gaining more and more interest over the years and will undoubtedly be developed and applied further The workshop offered a unique opportunity to

establish a state of the art of DNS LES and related techniques for the computation and modeling of turbulent and transitional flows and to discuss about recent advances and applications This volume contains most of the contributed papers which were submitted and further reviewed for publication They cover advances in computational techniques SGS modeling boundary conditions post processing and data analysis and applications in several fields namely multiphase and reactive flows convection and heat transfer compressible flows aerodynamics of airfoils and wings bluff body and separated flows internal flows and wall turbulence and other complex flows **Direct and Large-Eddy Simulation IV** Bernard Geurts,Rainer Friedrich,Olivier Métais,2001-11-30 This volume contains the proceedings of the 2001 DLES4 workshop It describes and discusses state of the art modeling and simulation approaches for complex flows Fundamental turbulence and modeling issues but also elements from modern numerical analysis are at the heart of this field of interest **Direct and Large-Eddy Simulation IX** Jochen Fröhlich,Hans Kuerten,Bernard J. Geurts,Vincenzo Armenio,2015-01-27 This volume reflects the state of the art of numerical simulation of transitional and turbulent flows and provides an active forum for discussion of recent developments in simulation techniques and understanding of flow physics Following the tradition of earlier DLES workshops these papers address numerous theoretical and physical aspects of transitional and turbulent flows At an applied level it contributes to the solution of problems related to energy production transportation magneto hydrodynamics and the environment A special session is devoted to quality issues of LES The ninth Workshop on Direct and Large Eddy Simulation DLES 9 was held in Dresden April 3 5 2013 organized by the Institute of Fluid Mechanics at Technische Universit t Dresden This book is of interest to scientists and engineers both at an early level in their career and at more senior levels Direct and Large Eddy Simulation XIII Cristian Marchioli,Maria Vittoria Salvetti,Manuel Garcia-Villalba,Philipp Schlatter,2023-11-15 This book covers the diverse and cutting edge research presented at the 13th ERCOFTAC Workshop on Direct and Large Eddy Simulation The first section of the book focuses on Aerodynamics Aeroacoustics comprising eight papers that delve into the intricate relationship between fluid flow and aerodynamic performance The second section explores the dynamics of Bluff Moving Bodies through four insightful papers Bubbly Flows the subject of the third section is examined through four papers Moving on the fourth section is dedicated to Combustion and Reactive Flows presenting two papers that focus on the complex dynamics of combustion processes and the interactions between fluids and reactive species Convection and Heat Mass Transfer are the central themes of the fifth section which includes three papers These contributions explore the fundamental aspects of heat and mass transfer in fluid flows addressing topics such as convective heat transfer natural convection and mass transport phenomena The sixth section covers Data Assimilation and Uncertainty Quantification featuring two papers that highlight the importance of incorporating data into fluid dynamic models and quantifying uncertainties associated with these models The subsequent sections encompass a wide range of topics including Environmental and Industrial Applications Flow Separation LES Fundamentals and Modelling Multiphase Flows and

Numerics and Methodology These sections collectively present a total of 23 papers that explore different facets of fluid dynamics contributing to the advancement of the field and its practical applications *Direct and Large-Eddy Simulation VIII* Hans Kuerten,Bernard Geurts,Vincenzo Armenio,Jochen Fröhlich,2011-10-05 This volume continues previous DLES proceedings books presenting modern developments in turbulent flow research It is comprehensive in its coverage of numerical and modeling techniques for fluid mechanics After Surrey in 1994 Grenoble in 1996 Cambridge in 1999 Enschede in 2001 Munich in 2003 Poitiers in 2005 and Trieste in 2009 the 8th workshop DLES8 was held in Eindhoven The Netherlands again under the auspices of ERCOFTAC Following the spirit of the series the goal of this 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 was a unique opportunity for discussions about the more recent advances in the prediction understanding and control of turbulent flows in academic or industrial situations *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 Poiters 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 **Direct and Large-Eddy Simulation IV** Bernard Geurts,Rainer Friedrich,Olivier Métais,2013-06-29 The workshop Direct and Large Eddy Simulation 4 was held at the Uni versity ofTwente July 18 20 2001 DLES4is part of a series ofERCOFfAC workshops that originated at the University of Surrey in 1994 Over the years the DLES series has grown into a major international venue focused on the development and application of direct and large eddy simulation Fundamental turbulence and modeling issues but also elements from modem numerical analysis are at the heart of this field of interest a fact which is clearly reflected by the contents of these proceedings Modeling and simulation of complex flow phenomena forms a central ele ment in a large volume of scientific and applied research The problem of simulating turbulent flows and capturing their main dynamical features remains a highly motivating challenge This three day workshop focused on recent de velopments in numerical and physical modeling of complex flow phenomena concentrating on modem strategies in the field of direct and large eddy simula tion A major aim was to promote the exchange of ideas and problems from both industrial and academic background paying attention to physical mathematical and engineering aspects **Industrial and Environmental Applications of Direct and Large-Eddy Simulation** Sedat Biringen,1999-08-19 This book provides a

unique assembly of state of the art articles concerned with a wide range of fundamental and applied issues including turbulence parameterization numerical uncertainty complex turbulence flow structure interactions atmosphere ocean turbulence and turmachinery flows The articles provide specific examples of the most recent applications of direct and large eddies methods These methods have been very successful in providing new insight into the structure of turbulent flows and are becoming feasable in real engineering and environmental problems with complex geometries This volume will be a very valuable source book for researchers and graduate students embarking on studies in turbulent flow simulation **Direct and Large-Eddy Simulation I** Peter R. Voke,Leonhard Kleiser,Jean-Pierre Chollet,2012-12-06 It is a truism that turbulence is an unsolved problem whether in scientific engin eering or geophysical terms It is strange that this remains largely the case even though we now know how to solve directly with the help of sufficiently large and powerful computers accurate approximations to the equations that govern tur bulent flows The problem lies not with our numerical approximations but with the size of the computational task and the complexity of the solutions we gen erate which match the complexity of real turbulence precisely in so far as the computations mimic the real flows The fact that we can now solve some turbu lence in this limited sense is nevertheless an enormous step towards the goal of full understanding Direct and large eddy simulations are these numerical solutions of turbulence They reproduce with remarkable fidelity the statistical structural and dynamical properties of physical turbulent and transitional flows though since the simula tions are necessarily time dependent and three dimensional they demand the most advanced computer resources at our disposal The numerical techniques vary from accurate spectral methods and high order finite differences to simple finite volume algorithms derived on the principle of embedding fundamental conservation prop erties in the numerical operations Genuine direct simulations resolve all the fluid motions fully and require the highest practical accuracy in their numerical and temporal discretisation Such simulations have the virtue of great fidelity when carried out carefully and repre sent a most powerful tool for investigating the processes of transition to turbulence **Direct and Large-Eddy Simulation II** Jean-Pierre Chollet,Peter R. Voke,Leonhard Kleiser,2012-12-06 Progress in the numerical simulation of turbulence has been rapid in the 1990s New techniques both for the numerical approximation of the Navier Stokes equations and for the subgrid scale models used in large eddy simulation have emerged and are being widely applied for both fundamental and applied engineering studies along with novel ideas for the performance and use of simulation for compressible chemically reacting and transitional flows This collection of papers from the second ERCOFTAC Workshop on Direct and Large Eddy Simulation held in Grenoble in September 1996 presents the key research being undertaken in Europe and Japan on these topics Describing in detail the ambitious use of DNS for fundamental studies and of LES for complex flows of potential and actual engineering importance this volume will be of interest to all researchers active in the area **Handbook of Environmental Fluid Dynamics, Volume Two** Harindra Joseph Fernando,2012-12-12 With major implications for applied physics engineering and the natural and social sciences the

rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field the two volume Handbook of Environmental Fluid Dynamics presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the study of environmental motions It also offers critical discussions of environmental sustainability related to engineering The handbook features 81 chapters written by 135 renowned researchers from around the world Covering environmental policy biological and chemical aspects it tackles important cross disciplinary topics such as sustainability ecology pollution micrometeorology and limnology Volume Two Systems Pollution Modeling and Measurements explores the interactions between engineered structures and anthropogenic activities that affect natural flows with particular emphasis on environmental pollution The book covers the numerical methodologies that underpin research predictive modeling and cyber infrastructure developments It also addresses practical aspects of laboratory experiments and field observations that validate quantitative predictions and help identify new phenomena and processes As communities face existential challenges posed by climate change rapid urbanization and scarcity of water and energy the study of environmental fluid dynamics becomes increasingly relevant This volume is a valuable resource for students researchers and policymakers working to better understand environmental motions and how they affect and are influenced by anthropogenic activities See also Handbook of Environmental Fluid Dynamics Two Volume Set and Volume One Overview and Fundamentals

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