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KEY=FLUENT - WARREN ELIEZER

Print Proceedings of the ASME 5th Joint ASME/JSME Fluids Engineering Conference (FEDSM2007) V. 2; July 30-August 2 2007, San Diego, California

American Society of Mechanical Engineers A collection on 226 full-length, peer-reviewed technical papers. It includes topics such as: 15th Forum on Industrial and Environmental Applications of Fluid Mechanics; 7th Forum on the Transport Phenomena in Mixing; and, Forum on Advanced CFD Applications to Transport Phenomena in Nuclear Engineering.

Mathematical and Numerical Foundations of Turbulence Models and Applications

Springer With applications to climate, technology, and industry, the modeling and numerical simulation of turbulent flows are rich with history and modern relevance. The complexity of the problems that arise in the study of turbulence requires tools from various scientific disciplines, including mathematics, physics, engineering and computer science. Authored by two experts in the area with a long history of collaboration, this monograph provides a current, detailed look at several turbulence models from both the theoretical and numerical perspectives. The k-epsilon, large-eddy simulation and other models are rigorously derived and their performance is analyzed using benchmark simulations for real-world turbulent flows. Mathematical and Numerical Foundations of Turbulence Models and Applications is an ideal reference for students in applied mathematics and engineering, as well as researchers in mathematical and numerical fluid dynamics. It is also a valuable resource for advanced graduate students in fluid dynamics, engineers, physical oceanographers, meteorologists and climatologists.

Modelling, Simulation and Control of Two-Wheeled Vehicles

John Wiley & Sons Enhanced e-book includes videos Many books have been written on modelling, simulation and control of four-wheeled vehicles (cars, in particular). However, due to the very specific and different dynamics of two-wheeled vehicles, it is very difficult to reuse previous knowledge gained on cars for two-wheeled vehicles. Modelling, Simulation and Control of Two-Wheeled Vehicles presents all of the unique features of two-wheeled vehicles, comprehensively covering the main methods, tools and approaches to address the modelling, simulation and control design issues. With contributions from leading researchers, this book also offers a perspective on the future trends in the field, outlining the challenges and the industrial and academic development scenarios. Extensive reference to real-world problems and experimental tests is also included throughout. Key features: The first book to cover all aspects of two-wheeled vehicle dynamics and control Collates cutting-edge research from leading international researchers in the field Covers motorcycle control - a subject gaining more and more attention both from an academic and an industrial viewpoint Covers modelling, simulation and control, areas that are integrated in two-wheeled vehicles, and therefore must be considered together in order to gain an insight into this very specific field of research Presents analysis of experimental data and reports on the results obtained on instrumented vehicles. Modelling, Simulation and Control of Two-Wheeled Vehicles is a comprehensive reference for those in academia who are interested in the state of the art of two-wheeled vehicles, and is also a useful source of information for industrial practitioners.

Urban Wind Energy

Earthscan Energy security, rising energy prices (oil, gas, electricity), 'peak oil', environmental pollution, nuclear energy, climate change and sustainable living are hot topics across the globe. Meanwhile, abundant and perpetual wind resources offer opportunities, via recent technological developments, to provide part of the solution to address these key issues. The rapid growth of large-scale wind farm installations has now led to the generation of clean electricity for tens of millions of homes around the world. However, despite the potential to reduce the losses and costs associated with transmission and to use local wind acceleration techniques to improve energy yields, the potential for urban wind energy has yet to be realised. Although there is increasing public interest, the uptake of urban wind energy in suitable areas has been slow. This is in part due to a lack of understanding of key issues such as: available wind resources; technology integration; planning processes (include assessment of environmental impacts and public safety due to close proximity to people and property); energy consumption in buildings versus energy production from turbines; economics (including grants, subsidies, maintenance); and the effect of complex urban windscapes on performance. Urban Wind Energy attempts to illuminate these areas, addressing common concerns highlighting pitfalls, offering real world examples and providing a framework to assess viability in energy, environmental and economic terms. It is a comprehensive guide to urban wind energy for architects, engineers, planners, developers, investors, policy-makers, manufacturers and students as well as community organisations and home-owners interested in generating their own clean electricity.

Fluid Mechanics of Flow Metering

Springer Science & Business Media Flow meters measure the volumetric flow rate in a pipeline. Most meters are based on deriving a signal from the fluid flow and calibrating the signal against the volumetric flow rate. The calibration is done in fully-developed flow, and the same state of flow must exist at the meter's position when it is in practical use. Because the field of flow metering has been neglected by fluid mechanicians for a long time, this book addresses two major fluid mechanical problems in flow metering: the analysis of signal generation in turbulent pipe flow, which explains the function of the meter beyond a simple calibration, and the possible use of a meter in non-developed flows. These problems are investigated with reference to, and examples from, a variety of meters, e.g. ultrasound cross-correlation meters, vortex meters, and turbine meters. Studying these problems requires consideration of specific phenomena in turbulent non-developed pipe flow, as caused by installations, and finding special solutions with signal processing, both of which are included in the book.

A First Course in Turbulence

MIT Press This is the first book specifically designed to offer the student a smooth transitional course between elementary fluid dynamics (which gives only last-minute attention to turbulence) and the professional literature on turbulent flow, where an advanced viewpoint is assumed. The subject of turbulence, the most forbidding in fluid dynamics, has usually proved treacherous to the beginner, caught in the whirls and eddies of its nonlinearities and statistical imponderables. This is the first book specifically designed to offer the student a smooth transitional course between elementary fluid dynamics (which gives only last-minute attention to turbulence) and the professional literature on turbulent flow, where an advanced viewpoint is assumed. Moreover, the text has been developed for students, engineers, and scientists with different technical backgrounds and interests. Almost all flows, natural and man-made, are turbulent. Thus the subject is the concern of geophysical and environmental scientists (in dealing with atmospheric jet streams, ocean currents, and the flow of rivers, for example), of astrophysicists (in studying the photospheres of the sun and stars or mapping gaseous nebulae), and of engineers (in calculating pipe flows, jets, or wakes). Many such examples are discussed in the book. The approach taken avoids the difficulties of advanced mathematical development on the one side and the morass of experimental detail and empirical data on the other. As a result of following its midstream course, the text gives the student a physical understanding of the subject and deepens his intuitive insight into those problems that cannot now be rigorously solved. In particular, dimensional analysis is used extensively in dealing with those problems whose exact solution is mathematically elusive. Dimensional reasoning, scale arguments, and similarity rules are introduced at the beginning and are applied throughout. A discussion of Reynolds stress and the kinetic theory of gases provides the contrast needed to put mixing-length theory into proper perspective: the authors present a thorough comparison between the mixing-length models and dimensional analysis of shear flows. This is followed by an extensive treatment of vorticity dynamics, including vortex stretching and vorticity budgets. Two chapters are devoted to boundary-free shear flows and well-bounded turbulent shear flows. The examples presented include wakes, jets, shear layers, thermal plumes, atmospheric boundary layers, pipe and channel flow, and boundary layers in pressure gradients. The spatial structure of turbulent flow has been the subject of analysis in the book up to this point, at which a compact but thorough introduction to statistical methods is given. This prepares the reader to understand the stochastic and spectral structure of turbulence. The remainder of the book consists of applications of the statistical approach to the study of turbulent transport (including diffusion and mixing) and turbulent spectra.

Transport Phenomena

Schlieren and Shadowgraph Techniques

Visualizing Phenomena in Transparent Media

Springer Science & Business Media Schlieren and shadowgraph techniques are basic and valuable tools in various scientific and engineering disciplines. They allow us to see the invisible: the optical inhomogeneities in transparent media like air, water, and glass that otherwise cause only ghostly distortions of our normal vision. These techniques are discussed briefly in many books and papers, but there is no up-to-date complete treatment of the subject before now. The book is intended as a practical guide for those who want to use these methods, as well as a resource for a broad range of disciplines where scientific visualization is important. The colorful 400-year history of these methods is covered in an extensive introductory chapter accessible to all readers.

Wind Energy in the Built Environment

Concentrator Effects of Buildings

Multi-Science Publishing Company Designing buildings that maximize wind harvest and drive a set of turbines that provide power for buildings is the architectural concept presented in this scientific analysis. The practicalities presented in this design concept will interest engineers and architects, while the possibilities of wind power being used at a domestic level will delight proponents of renewable energy.

Axial-flow Compressors

A Strategy for Aerodynamic Design and Analysis

Amer Society of Mechanical This book provides a thorough description of an aerodynamic design and analysis systems for Axial-Flow Compressors. It describes the basic fluid dynamic and thermodynamic principles, empirical models and numerical methods used for the full range of procedures and analytical tools that an engineer needs for virtually any tupe of Axial-Flow Compressor, aerodynamic design or analysis activity. It reviews and evaluates several design strategies that have been recommended in the literature or which have been found to be effective. It gives a complete description of an actual working system, such that readers can implement all or part of the system. Engineers responsible for developing, maintaining of improving design and analysis systems can benefit greatly from this type of reference. The technology has become so complex and the role of computers so pervasive that about the only way this can be done today is to concentrate on a specific design and analysis system. The author provides practical methodology as well as the details needed to implement the suggested procedures.

Advances in LES of Complex Flows

Proceedings of the Euromech Colloquium 412, held in Munich, Germany 4-6 October

2000

Springer Science & Business Media The articles focus on new developments in the field of large-eddy simulation of complex flows and are related to the topics: modelling and analysis of subgrid scales, numerical issues in LES cartesian grids for complex geometries, curvilinear and non-structured grids for complex geometries. DES and RANS-LES coupling, aircraft wake vortices, combustion and magnetohydrodynamics. Progress has been made not only in understanding and modelling the dynamics of unresolved scales, but also in designing means that prevent the contamination of LES predictions by discretization errors. Progress is reported as well on the use of cartesian and curvilinear coordinates to compute flow in and around complex geometries and in the field of LES with unstructured grids. A chapter is dedicated to the detached-eddy simulation technique and its recent achievements and to the promising technique of coupling RANS and LES solutions in order to push the resolution-based Reynolds number limit of wall-resolving LES to higher values. Complexity due to physical mechanisms links the last two chapters. It is shown that LES constitutes the tool to analyse the physics of aircraft wake vortices during landing and takeoff. Its thorough understanding is a prerequisite for reliable predictions of the distance between consecutive landing airplanes. Subgrid combustion modelling for LES of single and two-phase reacting flows is demonstrated to have the potential to deal with finite-rate kinetics in high Reynolds number flows of full-scale gas turbine engines. Fluctuating magnetic fields are more reliably predicted by LES when tensor-diffusivity rather than gradient-diffusion models are used. An encouraging result in the context of turbulence control by magnetic fields.

Aerodynamics of Wind Turbines

A Physical Basis for Analysis and Design

John Wiley & Sons A review of the aerodynamics, design and analysis, and optimization of wind turbines, combined with the author's unique software Aerodynamics of Wind Turbines is a comprehensive introduction to the aerodynamics, scaled design and analysis, and optimization of horizontal-axis wind turbines. The author -a noted expert on the topic - reviews the fundamentals and basic physics of wind turbines operating in the atmospheric boundary layer. He then explores more complex models that help in the aerodynamic analysis and design of turbine models. The text contains unique chapters on blade element momentum theory, airfoil aerodynamics, rotational augmentation, vortex-wake methods, actuator-line modeling, and designing aerodynamically scaled turbines for model-scale experiments. The author clearly demonstrates how effective analysis and design principles can be used in a wide variety of applications and operating conditions. The book integrates the easy-to-use, hands-on XTurb design and analysis software that is available on a companion website for facilitating individual analyses and future studies. This component enhances the learning experience and helps with a deeper and more complete understanding of the subject matter. This important book: Covers aerodynamics, design and analysis and optimization of wind turbines Offers the author's XTurb design and analysis software that is available on a companion website for individual analyses and future studies Includes unique chapters on blade element momentum theory, airfoil aerodynamics, rotational augmentation, vortex-wake methods, actuator-line modeling, and designing aerodynamically scaled turbines for model-scale experiments Demonstrates how design principles can be applied to a variety of applications and operating conditions Written for senior undergraduate and graduate students in wind energy as well as practicing engineers and scientists, Aerodynamics of Wind Turbines is an authoritative text that offers a guide to the fundamental principles, design and analysis of wind turbines.

Analytical Determination of Radial Inflow Turbine Design Geometry for Maximum Efficiency

Progress in Hybrid RANS-LES Modelling

Papers Contributed to the 4th Symposium on Hybrid RANS-LES Methods, Beijing, China, September 2011

Springer Science & Business Media The present book contains contributions presented at the Fourth Symposium on Hybrid RANS-LES Methods, held in Beijing, China, 28-30 September 2011, being a continuation of symposia taking place in Stockholm (Sweden, 2005), in Corfu (Greece, 2007), and Gdansk (Poland, 2009). The contributions to the last two symposia were published as NNFM, Vol. 97 and Vol. 111. At the Beijing symposium, along with seven invited keynotes, another 46 papers (plus 5 posters) were presented addressing topics on Novel turbulence-resolving simulation and modelling, Improved hybrid RANS-LES methods, Comparative studies of difference modelling methods, Modelling-related numerical issues and Industrial applications.. The present book reflects recent activities and new progress made in the development and applications of hybrid RANS-LES methods in general.

Physicochemical Behavior and Supramolecular Organization of Polymers

Springer Science & Business Media As the title suggests, this monograph features the physicochemical behavior and supramolecular organization of polymers. The book consists of four chapters dealing with solution properties, viscoelastic behavior, physicochemical aspects at interfaces and supramolecular structures of polymeric systems. The classical treatment of the physicochemical behavior of polymers is presented in such a way that the book will meet the requirements of a beginner in the study of polymeric systems in solution and in some aspects of the solid state, as well as those of the experienced researcher in other types of materials. Physicochemical behavior and Supramolecular Organization of Polymers is ultimately, a contribution to the chemistry of materials; it is a powerful reference tool for students and scientists working both in polymer chemistry, polymer physics and materials science.

Summary of Low Speed Airfoil Data

Soartech

Organic Rankine Cycle (ORC) Power Systems

Technologies and Applications

Woodhead Publishing Organic Rankine Cycle (ORC) Power Systems: Technologies and Applications provides a systematic and detailed description of organic Rankine cycle technologies and the way they are increasingly of interest for cost-effective sustainable energy generation. Popular applications include cogeneration from biomass and electricity generation from geothermal reservoirs and concentrating solar power installations, as well as waste heat recovery from gas turbines, internal combustion engines and medium- and low-temperature industrial processes. With hundreds of ORC power systems already in operation and the market growing at a fast pace, this is an active and engaging area of scientific research and technical development. The book is structured in three main parts: (i) Introduction to ORC Power Systems, Design and Optimization, (ii) ORC Plant Components, and (iii) Fields of Application. Provides a thorough introduction to ORC power systems Contains detailed chapters on ORC plant components Includes a section focusing on ORC design and optimization Reviews key applications of ORC technologies, including cogeneration from biomass, electricity generation from geothermal reservoirs and concentrating solar power installations, waste heat recovery from gas turbines, internal combustion engines and medium- and low-temperature industrial processes Various chapters are authored by well-known specialists from Academia and ORC manufacturers

Numerical Heat Transfer and Fluid Flow

CRC Press This book focuses on heat and mass transfer, fluid flow, chemical reaction, and other related processes that occur in engineering equipment, the natural environment, and living organisms. Using simple algebra and elementary calculus, the author develops numerical methods for predicting these processes mainly based on physical considerations. Through this approach, readers will develop a deeper understanding of the underlying physical aspects of heat transfer and fluid flow as well as improve their ability to analyze and interpret computed results.

Fundamentals of Premixed Turbulent Combustion

CRC Press Lean burning of premixed gases is considered to be a promising combustion technology for future clean and highly efficient gas turbine combustors. Yet researchers face several challenges in dealing with premixed turbulent combustion, from its nonlinear multiscale nature and the impact of local phenomena to the multitude of competing models. Filling

Mechanics and Thermodynamics of Propulsion

Pearson Education In this textbook, the authors show that a few fundamental principles can provide students of mechanical and aeronautical engineering with a deep understanding of all modes of aircraft and spacecraft propulsion.

CFL3D User's Manual (Version 5.0)

Contact Mechanics and Friction

Physical Principles and Applications

Springer This application-oriented book introduces readers to the associations and relationships between contact mechanics and friction, providing them with a deeper understanding of tribology. It addresses the related phenomena of contacts, adhesion, capillary forces, friction, lubrication, and wear from a consistent point of view. The author presents (1) methods for rough estimates of tribological quantities, (2) simple and general methods for analytical calculations, and (3) the crossover into numerical simulation methods, the goal being to convey a consistent view of tribological processes at various scales of magnitude (from nanotribology to earthquake research). The book also explores the system dynamic aspects of tribological systems, such as squeal and its suppression, as well as other types of instabilities and spatial patterns. It includes problems and worked-out solutions for the respective chapters, giving readers ample opportunity to apply the theory to practical situations and to deepen their understanding of the material discussed. The second edition has been extended with a more detailed exposition of elasto-hydrodynamic lubrication, an updated chapter on numerical simulation methods in contact mechanics, a new section on fretting in the chapter on wear, as well as numerous new exercises and examples, which help to make the book an excellent reference guide.

Turbulence and Interactions

Proceedings of the TI 2018 Conference, June 25-29, 2018, Les Trois-Îlets, Martinique, France

Springer Nature This book presents a snapshot of the state-of-art in the field of turbulence modeling, with an emphasis on numerical methods. Topics include direct numerical simulations, large eddy simulations, compressible turbulence, coherent structures, two-phase flow simulation and many more. It includes both theoretical contributions and experimental works, as well as chapters derived from keynote lectures, presented at the fifth Turbulence and Interactions Conference (TI 2018), which was held on June 25-29 in Martinique, France. This multifaceted collection, which reflects the conference's emphasis on the interplay of theory, experiments and computing in the process of understanding and predicting the physics of complex flows and solving related engineering problems, offers a timely guide for students, researchers and professionals in the field of applied computational fluid dynamics, turbulence modeling and related areas.

ECARP

European Computational Aerodynamics Research Project : Validation of CFD Codes and Assessment of Turbulence Models

Friedr Vieweg & Sohn Verlagsgesellschaft

Low-Speed Wind Tunnel Testing

John Wiley & Sons A brand-new edition of the classic guide on low-speed wind tunnel testing While great advances in theoretical and computational methods have been made in recent years, low-speed wind tunnel testing remains essential for obtaining the full range of data needed to guide detailed design decisions for many practical engineering problems. This long-awaited Third Edition of William H. Rae, Jr.'s landmark reference brings together essential information on all aspects of low-speed wind tunnel design, analysis, testing, and instrumentation in one easy-to-use resource. Written by authors who are among the most respected wind tunnel engineers in the world, this edition has been updated to address current topics and applications, and includes coverage of digital electronics, new instrumentation, video and photographic methods, pressure-sensitive paint, and liquid crystal-based measurement methods. The book is organized for quick access to topics of interest, and examines basic test techniques and objectives of modeling and testing aircraft designs in low-speed wind tunnels, as well as applications to fluid motion analysis, automobiles, marine vessels, buildings, bridges, and other structures subject to wind loading. Supplemented with real-world examples throughout, Low-Speed Wind Tunnel Testing, Third Edition is an indispensable resource for aerospace engineering students and professionals, engineers and researchers in the automotive industries, wind tunnel designers, architects, and others who need to get the most from low-speed wind tunnel technology and experiments in their work.

Compressors and Turbines

Energy, Mines and Resources Canada Manual on energy management for compressors and turbines, introducing these pieces of equipment as used in the industrial, commercial and institutional sectors; defining methods of determining the approximate energy consumption; providing potential energy and cost savings available; and providing a series of worksheets to establish a standard method of calculating energy and cost savings. Also included is a glossary and specific details for energy calculations for electric motor drives and alternatives.

Proceedings of the ASME Turbo Expo 2012

American Society of Mechanical Engineers Printed collection of 105 full-length, peer-reviewed technical papers.

EUROVAL — An European Initiative on Validation of CFD Codes

Results of the EC/BRITE-EURAM Project EUROVAL, 1990–1992

Springer-Verlag

Design Methods for In-stream Flow Control Structures

"TRB's National Cooperative Highway Research Program (NCHRP) Report 795: Design Methods for In-Stream Flow Control Structures presents design guidelines for in-stream flow control structures used to limit lateral migration and reduce bank erosion. Appendices A through E and Appendix G are available on the project webpage."--Publisher's description.

Industrial Refrigeration Handbook

McGraw-Hill Professional Pub Drawing from the best of the widely dispersed literature in the field and the author's vast professional knowledge and experience, here is today's most exhaustive, one-stop coverage of the fundamentals, design, installation, and operation of industrial refrigeration systems. Detailing the industry changes caused by the conversion from CFCs to non-ozone-depleting refrigerants and by the development of microprocessors and new secondary coolants, Industrial Refrigeration Handbook also examines multistage systems; compressors, evaporators, and condensers; piping, vessels, valves and refrigerant controls; liquid recirculation; refrigeration load calculations; refrigeration and freezing of food; and safety procedures. Offering a rare compilation of thermodynamic data on the most-used industrial refrigerants, the Handbook is a mother lode of vital information and guidance for every practitioner in the field.

Turbomachines

A Guide to Design Selection and Theory

John Wiley & Sons

High-speed Wind Tunnels

The importance assumed in recent times by experimental supersonic wind tunnels, as well as the power required, has brought about the need for a study which would permit a comparison of the types tested and the principal theoretical plans.

Turbulent Combustion Modeling

Advances, New Trends and Perspectives

Springer Science & Business Media Turbulent combustion sits at the interface of two important nonlinear, multiscale phenomena: chemistry and turbulence. Its study is extremely timely in view of the need to develop new combustion technologies in order to address challenges associated with climate change, energy source uncertainty, and air pollution. Despite the fact that modeling of turbulent combustion is a subject that has been researched for a number of years, its complexity implies that key issues are still eluding, and a theoretical description that is accurate enough to make turbulent combustion models rigorous and quantitative for industrial use is still lacking. In this book, prominent experts review most of the available approaches in modeling turbulent combustion, with particular focus on the exploding increase in computational resources that has allowed the simulation of increasingly detailed phenomena. The relevant algorithms are presented, the theoretical methods are explained, and various application examples are given. The book is intended for a relatively broad audience, including seasoned researchers and graduate students in engineering, applied mathematics and computational science, engine designers and computational fluid dynamics (CFD) practitioners, scientists at funding agencies, and anyone wishing to understand the state-of-the-art and the future directions of this scientifically challenging and practically important field.

Water-resources Investigations Report

Statistical Fluid Mechanics

Mechanics of Turbulence

Courier Corporation "If ever a book on turbulence could be called definitive," declared Science, "it is this book by two of Russia's most eminent and productive scientists in turbulence, oceanography, and atmospheric physics." Noted for its clarity as well as its comprehensive treatment, this two-volume set serves as text or reference. 1971 edition.

Turbulence

The Legacy of A. N. Kolmogorov

Cambridge University Press This textbook presents a modern account of turbulence, one of the greatest challenges in physics. The state-of-the-art is put into historical perspective five centuries after the first studies of Leonardo and half a century after the first attempt by A. N. Kolmogorov to predict the properties of flow at very high Reynolds numbers. Such 'fully developed turbulence' is ubiquitous in both cosmic and natural environments, in engineering applications and in everyday life. The intended readership for the book ranges from first-year graduate students in mathematics, physics, astrophysics, geosciences and engineering, to professional scientists and engineers. Elementary presentations of dynamical systems ideas, of probabilistic methods (including the theory of large deviations) and of fractal geometry make this a self-contained textbook.

Combustion and Flow Diagnostics

Optimum Aerodynamic Design & Parallel Navier-Stokes Computations ECARP — European Computational Aerodynamics Research Project

Vieweg+Teubner Verlag This book is one of three volumes entitled "ECARP-European Computational Aerodynamics Research Project", which was supported by the European Union in the Aeronautics Area of the Industrial and Materials Technology Programme. This volume contains optimization techniques for a number of inviscid and viscous problems like drag reduction, inverse, multipoint, wing-pylon-nacelle and riblets (Part A); and methodologies for solving the Navier Stokes equations on parallel architectures for compressible viscous flows in two and three dimensions (Part B). The main objective of this book is to disseminate information about cost effective methodologies for practical design problems and parallel CFD to be used by computer scientists and multidisciplinary engineers.

Advances in DNS/LES

Proceedings of the First AFOSR International Conference on DNS/LES, Louisiana Tech

University, Ruston, Louisiana, USA, August 4-8, 1997
Research and Highlights