

Editorial

Numerical Simulation of Fluid Flow and Heat Transfer Processes

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Fluid flow and heat transfer processes are ubiquitous in nature and engineering. They exist in many aspects of industrial operations and daily life. Numerical simulations of these processes have been important methods for fundamental and applicable researches. This special issue focuses on the latest achievements in the two aspects. We received 63 active submissions from the United States of America, Canada, Mexico, France, Italy, Norway, Saudi Arabia, Turkey, China, Japan, Pakistan, Republic of Korea, and so forth and finally accepted 35 research articles to publish them in the special issue after peer reviews. The topics cover the researches having solid theoretical fundamentals including turbulent fluid flow and heat/mass transfer and the researches having strong backgrounds of applications.

In the field of turbulent fluid flow, 10 articles have been published. The following articles make efforts on direct numerical simulation (DNS), the Reynolds averaged Navier-Stokes (RANS) model, and large eddy simulation (LES) of turbulence. The article "*DNS study of the turbulent Taylor-vortex flow on a ribbed inner cylinder*" by T. Tsukahara et al. shows the investigation of turbulent Taylor-vortex flows over regularly spaced square ribs mounted on a rotating inner cylinder surface. The authors find that Taylor vortices remaining over roughened cylinder surfaces can lead to less pressure drag and an enhanced backflow in the recirculation zone. The article "*Turbulence modulation by small bubbles in the vertical upward channel flow*" by M. Pang et al. presents the mechanisms of the liquid turbulence modulation induced by

the addition of small bubbles. Intensified turbulence near the wall and slightly weakened turbulence in the channel region are discovered. In the article entitled "*A modified $k-\epsilon$ model for computation of flows with large streamline curvature*" by J.-L. Yin et al., the authors propose an improved RANS model for system rotation and streamline curvature effects and provide an effective way for turbulence modeling. In the article entitled "*Large eddy simulation of inertial particle preferential dispersion in a turbulent flow over a backward-facing step*" by B. Wang et al., LES of a turbulent flow with inertial particle dispersion over a backward-facing step is performed. The research conclusions are useful for further understanding the two-phase turbulence physics and establishing accurate engineering prediction models of particle dispersion. In the article "*Comparisons of LES and RANS computations with PIV experiments on a cylindrical cavity flow*" by W.-T. Su et al., RANS and LES methods are compared. The results show that LES is more suitable for predicting the complex flow characteristics inside complicated three-dimensional (3D) geometries. In the article "*Experimental validation of volume of fluid method for a sluice gate flow*" by A. A. Omer et al., two-dimensional (2D) open channel flow under a vertical sluice gate can be successfully analyzed by the volume of fluid (VOF) method-based modeling after the experimental validation. The following four articles focus on aerodynamics or drag reduction. "*Aerodynamic performance prediction of straight-bladed vertical axis wind turbine based on CFD*" by L. X. Zhang et al. demonstrates that the leading edge separation

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**Cristiano Fragassa, Elizaldo Domingues
Dos Santos, Nenad Djordjevic**



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Numerical Simulation of Fluid Flow and Heat/Mass Transfer Processes N.C. Markatos,D.G. Tatchell,M. Cross,N. Rhodes,2012-12-06 Computational fluid flow is not an easy subject Not only is the mathematical representation of physico chemical hydrodynamics complex but the accurate numerical solution of the resulting equations has challenged many numerate scientists and engineers over the past two decades The modelling of physical phenomena and testing of new numerical schemes has been aided in the last 10 years or so by a number of basic fluid flow programs MAC TEACH 2 E FIX GENMIX etc However in 1981 a program perhaps more precisely a software product called PHOENICS was released that was then and still remains arguably the most powerful computational tool in the whole area of endeavour surrounding fluid dynamics The aim of PHOENICS is to provide a framework for the modelling of complex processes involving fluid flow heat transfer and chemical reactions PHOENICS has now been in use for four years by a wide range of users across the world It was thus perceived as useful to provide a forum for PHOENICS users to share their experiences in trying to address a wide range of problems So it was that the First International PHOENICS Users Conference was conceived and planned for September 1985 The location at the Dartford Campus of Thames Polytechnic in the event proved to be an ideal site encouraging substantial interaction between the participants

50 Years of CFD in Engineering Sciences Akshai Runchal,2020-03-09 Prof D Brian Spalding working with a small group of students and colleagues at Imperial College London in the mid to late 1960 s single handedly pioneered the use of Computational Fluid Dynamics CFD for engineering practice This book brings together advances in computational fluid dynamics in a collection of chapters authored by leading researchers many of them students or associates of Prof Spalding The book intends to capture the key developments in specific fields of activity that have been transformed by application of CFD in the last 50 years The focus is on review of the impact of CFD on these selected fields and of the novel applications that CFD has made possible Some of the chapters trace the history of developments in a specific field and the role played by Spalding and his contributions The volume also includes a biographical summary of Brian Spalding as a person and as a scientist as well as tributes to Brian Spalding by those whose life was impacted by his innovations This volume would be of special interest to researchers practicing engineers and graduate students in various fields including aerospace energy power and propulsion transportation combustion management of the environment health and pharmaceutical sciences

Prevention of Hazardous Fires and Explosions V.E. Zarko,V. Weiser,N. Eisenreich,A.A. Vasil'ev,2012-12-06 Besides its obvious destructive potential military R D also serves to protect human lives equipment and facilities against the effects of weapons Concepts have therefore been developed that improve safety of stationary and mobile facilities against pressure waves thermal radiation and fire Effective fast fire extinguishing equipment has been designed for tank compartments and motors Closed buildings are demolished and landmines are removed with gas and dust explosions Stringent safety requirements have been developed for the production

of ammunition and explosives Military and related industries have accumulated a vast knowledge and sophisticated experience that are very valuable in a variety of civil applications The knowledge is based on theoretical and experimental research work the origin of which sometimes dates back many centuries It has often been classified and therefore has remained unknown to the civilian population until now *Guidelines for Evaluating the Characteristics of Vapor Cloud Explosions, Flash Fires, and BLEVEs* CCPS (Center for Chemical Process Safety),2010-09-14 The serious consequences of vapor cloud explosions flash fires and BLEVEs are very well known Better understanding of the characteristics of these phenomena and models to calculate their consequences are key to effective prevention and mitigation Cited by EPA in its 1996 document Off site Consequence Analysis Guidance the first half of the book describes the characteristics of these phenomena and gives an overview of past experimental and theoretical research and methods to estimate consequences The second part focuses on methods for consequence estimating by presenting sample problems The entire book is heavily illustrated with photos charts tables and diagrams and each chapter has a full set of references for additional reading

Guidelines for Vapor Cloud Explosion, Pressure Vessel Burst, BLEVE, and Flash Fire Hazards CCPS (Center for Chemical Process Safety),2011-12-01 This guide provides an overview of methods for estimating the characteristics of vapor cloud explosions flash fires and boiling liquid expanding vapor explosions BLEVEs for practicing engineers It has been updated to include advanced modeling technology especially with respect to vapor cloud modeling and the use of computational fluid dynamics The text also reviews past experimental and theoretical research and methods to estimate consequences Heavily illustrated with photos charts tables and diagrams this manual is an essential tool for safety insurance regulatory and engineering students and professionals Computational Fluid Dynamics Review 1998 (In 2 Volumes) Mohamed M Hafez,Koichhi Oshima,1998-11-20 The first volume of CFD Review was published in 1995 The purpose of this new publication is to present comprehensive surveys and review articles which provide up to date information about recent progress in computational fluid dynamics on a regular basis Because of the multidisciplinary nature of CFD it is difficult to cope with all the important developments in related areas There are at least ten regular international conferences dealing with different aspects of CFD It is a real challenge to keep up with all these activities and to be aware of essential and fundamental contributions in these areas It is hoped that CFD Review will help in this regard by covering the state of the art in this field The present book contains sixty two articles written by authors from the US Europe Japan and China covering the main aspects of CFD There are five sections general topics numerical methods flow physics interdisciplinary applications parallel computation and flow visualization The section on numerical methods includes grids schemes and solvers while that on flow physics includes incompressible and compressible flows hypersonics and gas kinetics as well as transition and turbulence This book should be useful to all researchers in this fast developing field **Computers and Experiments in Fluid Flow** Giovanni M. Carlomagno,C. A. Brebbia,1989 **Computational Fluid Mechanics and Heat Transfer, Second Edition**

Richard H. Pletcher, John C. Tannehill, Dale Anderson, 1997-04-01 This comprehensive text provides basic fundamentals of computational theory and computational methods The book is divided into two parts The first part covers material fundamental to the understanding and application of finite difference methods The second part illustrates the use of such methods in solving different types of complex problems encountered in fluid mechanics and heat transfer The book is replete with worked examples and problems provided at the end of each chapter *Continuum Theory and Modeling of Thermoelectric Elements* Christophe Goupil, 2016-02-23 Sound knowledge of the latest research results in the thermodynamics and design of thermoelectric devices providing a solid foundation for thermoelectric element and module design in the technical development process and thus serving as an indispensable tool for any application development The text is aimed mainly at the project developer in the field of thermoelectric technology both in academia and industry as well as at graduate and advanced undergraduate students Some core sections address the specialist in the field of thermoelectric energy conversion providing detailed discussion of key points with regard to optimization The international team of authors with experience in thermoelectrics research represents such institutes as EnsiCaen Universite de Paris JPL CalTech and the German Aerospace Center **Encyclopedia of Fluid Mechanics: Flow phenomena and measurement** ,1987

Engineering Mathematics in Ship Design Cristiano Fraga, Elzaldo Domingues Dos Santos, Nenad Djordjevic, 2020-01-03 Engineering mathematics is a branch of applied mathematics where mathematical methods and techniques are implemented for solving problems related to the engineering and industry It also represents a multidisciplinary approach where theoretical and practical aspects are deeply merged with the aim at obtaining optimized solutions In line with that the present Special Issue Engineering Mathematics in Ship Design is focused in particular with the use of this sort of engineering science in the design of ships and vessels Articles are welcome when applied science or computation science in ship design represent the core of the discussion *Fluid Mechanics and Fluid Power (Vol. 3)* Suman Battacharya, Saket Verma, A. R. Harikrishnan, 2023-04-17 This book presents the select proceedings of the 48th National Conference on Fluid Mechanics and Fluid Power FMFP 2021 held at BITS Pilani in December 2021 It covers the topics such as fluid mechanics measurement techniques in fluid flows computational fluid dynamics instability transition and turbulence fluid structure interaction multiphase flows micro and nanoscale transport bio fluid mechanics aerodynamics turbomachinery propulsion and power The book will be useful for researchers and professionals interested in the broad field of mechanics Applied mechanics reviews ,1948 *Modeling, Identification and Control* ,1988 **CRC Handbook of Thermal Engineering** Raj P. Chhabra, 2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food

processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe

Modeling of Gas-to-Particle Mass Transfer in Turbulent Flows Sean C. Garrick, Michael Bühlmann, 2017-06-29 This Brief focuses on the dispersion of high porosity particles their entrainment into the vapor laden stream and the condensation of vapor onto the particles The authors begin with a simple static problem focusing on transport within the particle They go on to consider the high resolution simulation of particles in a turbulent flow and the time dependent evolution of the fluid particle fields Finally they examine the more computationally affordable large eddy simulation of gas to particle mass transfer The book ends with a summary and challenges as well as directions for the area

Computational Fluid Mechanics and Heat Transfer Dale Anderson, John C. Tannehill, Richard H. Pletcher, 2016-04-19 Thoroughly updated to include the latest developments in the field this classic text on finite difference and finite volume computational methods maintains the fundamental concepts covered in the first edition As an introductory text for advanced undergraduates and first year graduate students Computational Fluid Mechanics and Heat Transfer This

Books in Print, 1994 *Calculation of Skin Friction in two-dimensional, Transonic, Turbulent Flow* T. W. Swafford, 1979

Forthcoming Books Rose Arny, 1986

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