

Heat Transfer and Fluid Flow in Rotating Coolant Channels

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Heat Transfer and Fluid Flow in Rotating Coolant Channels William David Morris, 1981 *Heat Transfer and Fluid Flow in Rotating Machinery* Wen-Jei Yang, 1987 **Gas Turbine Heat Transfer and Cooling Technology** Je-Chin Han, Sandip Dutta, Srinath Ekkad, 2012-11-27 A comprehensive reference for engineers and researchers this second edition focuses on gas turbine heat transfer issues and their associated cooling technologies for aircraft and land based gas turbines It provides information on state of the art cooling technologies such as advanced turbine blade film cooling and internal cooling schemes The book also offers updated experimental methods for gas turbine heat transfer and cooling research as well as advanced computational models for gas turbine heat transfer and cooling performance predictions The authors provide suggestions for future research within this technology and includes 800 illustrations to help clarify concepts and instruction **Effects of Rotation on Coolant Passage Heat Transfer**, 1991 **NASA Technical Paper**, 1990 Processing by Centrifugation Liya L. Regel, William R. Wilcox, 2011-06-28 This volume constitutes the proceedings of the Fourth International Workshop on Materials Processing at High Gravity held at Clarkson University May 29 to June 2 2000 There were 73 attendees from 16 countries Since the topics extended well beyond materials processing it was felt appropriate to name this proceedings Centrifugal Processing Processing by Centrifugation includes the traditional bench scale centrifuges as well as all rotating systems utilizing the centrifugal and Coriolis forces to provide unique performance Centrifugation led to the formation of sticky porous Teflon membranes as well as improved polymeric solar cells Centrifugation on large equipment improved the chemical vapor deposition of diamond films influenced the growth and dissolution of semiconductor crystals and elucidated the influence of gravity on coagulation of colloidal Teflon A million g centrifuge was constructed and used to study sedimentation in solids and to prepare compositionally graded materials and new phases Rotation of a pipe about its axis allowed the casting of large diameter metal alloy pipes as well as coating the interior of pipes with a cermet utilizing self propagating high temperature synthesis Such coatings are highly corrosion and erosion resistant Flow on a rotating disk was shown to be useful for process intensification such as large scale manufacturing of nano particles polymerization reactions and heat mass transfer Several theoretical studies dealt with the influence of rotation on fluid convection on surfaces and in pipes tubes and porous media These have applications to integrated circuit chip manufacturing alloy casting oil production crystal growth and the operation of rotating machinery **Applications of Heat, Mass and Fluid Boundary Layers** R. O. Fagbenle, O. M. Amoo, S. Aliu, A. Falana, 2020-01-27 Applications of Heat Mass and Fluid Boundary Layers brings together the latest research on boundary layers where there has been remarkable advancements in recent years This book highlights relevant concepts and solutions to energy issues and environmental sustainability by combining fundamental theory on boundary layers with real world industrial applications from among others the thermal nuclear and chemical industries The book s editors and their team of expert contributors discuss many core themes including advanced heat transfer fluids and

boundary layer analysis physics of fluid motion and viscous flow thermodynamics and transport phenomena alongside key methods of analysis such as the Merk Chao Fagbenle method This book s multidisciplinary coverage will give engineers scientists researchers and graduate students in the areas of heat mass fluid flow and transfer a thorough understanding of the technicalities methods and applications of boundary layers with a unified approach to energy climate change and a sustainable future

Fluid Dynamics and Heat Transfer of Turbomachinery Budugur Lakshminarayana,1995-12-15

Over the past three decades information in the aerospace and mechanical engineering fields in general and turbomachinery in particular has grown at an exponential rate Fluid Dynamics and Heat Transfer of Turbomachinery is the first book in one complete volume to bring together the modern approaches and advances in the field providing the most up to date unified treatment available on basic principles physical aspects of the aerothermal field analysis performance theory and computation of turbomachinery flow and heat transfer Presenting a unified approach to turbomachinery fluid dynamics and aerothermodynamics the book concentrates on the fluid dynamic aspects of flows and thermodynamic considerations rather than on those related to materials structure or mechanical aspects It covers the latest material and all types of turbomachinery used in modern day aircraft automotive marine spacecraft power and industrial applications and there is an entire chapter devoted to modern approaches on computation of turbomachinery flow An additional chapter on turbine cooling and heat transfer is unique for a turbomachinery book The author has undertaken a systematic approach through more than three hundred illustrations in developing the knowledge base He uses analysis and data correlation in his discussion of most recent developments in this area drawn from over nine hundred references and from research projects carried out by various organizations in the United States and abroad This book is extremely useful for anyone involved in the analysis design and testing of turbomachinery For students it can be used as a two semester course of senior undergraduate or graduate study the first semester dealing with the basic principles and analysis of turbomachinery the second exploring three dimensional viscid flows computation and heat transfer Many sections are quite general and applicable to other areas in fluid dynamics and heat transfer The book can also be used as a self study guide to those who want to acquire this knowledge The ordered meticulous and unified approach of Fluid Dynamics and Heat Transfer of Turbomachinery should make the specialization of turbomachinery in aerospace and mechanical engineering much more accessible to students and professionals alike in universities industry and government Turbomachinery theory performance and analysis made accessible with a new unified approach For the first time in nearly three decades here is a completely up to date and unified approach to turbomachinery fluid dynamics and aerothermodynamics Combining the latest advances methods and approaches in the field Fluid Dynamics and Heat Transfer of Turbomachinery features The most comprehensive and complete coverage of the fluid dynamics and aerothermodynamics of turbomachinery to date A spotlight on the fluid dynamic aspects of flows and the thermodynamic considerations for turbomachinery rather than the structural or material aspects A

detailed step by step presentation of the analytical and computational models involved which allows the reader to easily construct a flowchart from which to operate Critical reviews of all the existing analytical and numerical models highlighting the advantages and drawbacks of each Comprehensive coverage of turbine cooling and heat transfer a unique feature for a book on turbomachinery An appendix of basic computation techniques numerous tables and listings of common terminology abbreviations and nomenclature Broad in scope yet concise and drawing on the author s teaching experience and research projects for government and industry Fluid Dynamics and Heat Transfer of Turbomachinery explains and simplifies an increasingly complex field It is an invaluable resource for undergraduate and graduate students in aerospace and mechanical engineering specializing in turbomachinery for research and design engineers and for all professionals who are or wish to be at the cutting edge of this technology

Heat Transfer in Gas Turbines Mingking K. Chyu, Nirm V. Nirmalan, 1994
Comprises 15 papers presented at the November 1994 Congress Contributors examine the complex nature of hot side and cold side heat transfer rates and distribution in papers representing three categories of gas turbine heat transfer film cooling disk and gas side heat transfer and internal cooling

Transport Phenomena in Heat and Mass Transfer J.A. Reizes, 2012-12-02 Theoretical numerical and experimental studies of transport phenomena in heat and mass transfer are reported in depth in this volume Papers are presented which review and discuss the most recent developments in areas such as Mass transfer Cooling of electronic components Phase change processes Instrumentation techniques Numerical methods Heat transfer in rotating machinery Hypersonic flows and Industrial applications Bringing together the experience of specialists in these fields the volume will be of interest to researchers and practising engineers who wish to enhance their knowledge in these rapidly developing areas

Handbook of Turbomachinery Earl Logan, Jr., 2003-05-01 Building on the success of its predecessor Handbook of Turbomachinery Second Edition presents new material on advances in fluid mechanics of turbomachinery high speed rotating and transient experiments cooling challenges for constantly increasing gas temperatures advanced experimental heat transfer and cooling effectiveness techniques and propagation of wake and pressure disturbances Completely revised and updated it offers updated chapters on compressor design rotor dynamics and hydraulic turbines and features six new chapters on topics such as aerodynamic instability flutter prediction blade modeling in steam turbines multidisciplinary design optimization

Scientific and Technical Aerospace Reports ,1994
Emerging Trends in Science, Engineering and Technology S Sathiyamoorthy, B. Elizabeth Caroline, J Gnana Jayanthi, 2012-12-14 The present book is based on the research papers presented in the International Conference on Emerging Trends in Science Engineering and Technology 2012 held at Tiruchirapalli India The papers presented bridges the gap between science engineering and technology This book covers a variety of topics including mechanical production aeronautical material science energy civil and environmental energy scientific management etc The prime objective of the book is to fully integrate the scientific contributions from academicians industrialists and research scholars

Rotating

Machinery J. H. Kim, Wen-Jei Yang, 1992-05-01 This work the first of two contains papers presented at an international conference on the technology of rotating machinery which specifically address transport phenomena in terms of turbine cooling heat transfer rotating surfaces curved ducts and rotating channels multiphase flow and more **Heat Transfer in Gas Turbine Engines** American Society of Mechanical Engineers. Winter Annual Meeting, 1989 *Flow Visualization VI* Yoshimichi Tanida, Hiroshi Miyashiro, 2013-06-29 Over the last decade flow visualization has advanced in step with the progress in laser and computer technologies The scope of the International Symposium on Flow Visualization will be broader than ever covering the range of information generally thought of as nonvisual and reflecting the inclusion of computer aided methodologies The Sixth International Symposium on Flow Visualization aims to attract the participation of experts and users of flow visualizing techniques on furthering an advanced philosophy for the development of the methods and their applications *Internal Flow* E. M. Greitzer, C. S. Tan, M. B. Graf, 2007-02-26 This book describes the analysis and behaviour of internal flows encountered in propulsion systems fluid machinery compressors turbines and pumps and ducts diffusers nozzles and combustion chambers The focus is on phenomena that are important in setting the performance of a broad range of fluid devices The authors show that even for complex processes one can learn a great deal about the behaviour of such devices from a clear understanding and rigorous use of basic principles Throughout the book they illustrate theoretical principles by reference to technological applications The strong emphasis on fundamentals however means that the ideas presented can be applied beyond internal flow to other types of fluid motion The book equips students and practising engineers with a range of new analytical tools These tools offer enhanced interpretation and application of both experimental measurements and the computational procedures that characterize modern fluids engineering **NASA Reference Publication** ,1977 *Applied mechanics reviews* ,1948 *Engineering Turbulence Modelling and Experiments - 2 F.* Martelli, W. Rodi, 2014-06-28 Today understanding turbulence is one of the key issues in tackling flow problems in engineering Powerful computers and numerical methods are now available for solving flow equations but the simulation of turbulence effects which are nearly always important in practice are still at an early stage of development Successful simulation of turbulence requires the understanding of the complex physical phenomena involved and suitable models for describing the turbulence momentum heat and mass transfer The 89 papers including 5 invited papers in this volume present and discuss new developments in the area of turbulence modelling and measurements with particular emphasis on engineering related problems The high standard of the contributions on the developing and testing of turbulent models attests to the world wide interest this domain is currently attracting from researchers

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