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NOBLE BROOKS

Introduction to Fluid Mechanics and Fluid Machines Springer
A newly updated and expanded edition that combines theory and applications of turbomachinery while covering several different types of turbomachinery In mechanical engineering, turbomachinery describes machines that transfer energy between a rotor and a fluid, including turbines, compressors, and pumps. Aiming for a unified treatment of the subject matter, with consistent notation and concepts, this new edition of a highly popular book provides all new information on turbomachinery, and includes 50% more exercises than the previous edition. It allows readers to easily move from a study of the most successful textbooks on thermodynamics and fluid dynamics to the subject of turbomachinery. The book also builds concepts systematically as progress is made through each chapter so that the user can progress at their own pace. Principles of Turbomachinery, 2nd Edition provides comprehensive coverage of everything readers need to know, including chapters on: thermodynamics, compressible flow, and principles of turbomachinery analysis. The book also looks at steam turbines, axial turbines, axial compressors, centrifugal compressors and pumps, radial inflow turbines, hydraulic turbines, hydraulic transmission of power, and wind turbines. New chapters on droplet laden flows of steam and oblique shocks help make this an incredibly current and well-rounded resource for students and practicing engineers. Includes 50% more exercises than the previous edition Uses MATLAB or GNU/OCTAVE for all the examples and exercises for which computer calculations are needed, including those for steam Allows for a smooth transition from the study of thermodynamics, fluid dynamics, and heat transfer to the subject of turbomachinery for students and professionals Organizes content so that more difficult material is left to the later sections of each chapter, allowing instructors to customize and tailor their courses for their students Principles of Turbomachinery is an excellent book for students and professionals in mechanical, chemical, and aeronautical engineering.
Indian Book Industry John Wiley & Sons
The book summarises the outcom of a priority research programme: 'Analysis, Modelling and Computation of Multiphase Flows'. The results of 24 individual research projects are presented. The main objective of the research programme was to provide a better understanding of the physical basis for multiphase gas-liquid flows as they are found in numerous chemical and biochemical reactors. The research comprises steady and unsteady multiphase flows in three frequently found reactor configurations, namely bubble columns without interiors, airlift loop reactors, and aerated stirred vessels. For this purpose new and improved measurement techniques were developed. From the resulting knowledge and data, new and refined models for describing the underlying physical processes were developed, which were used for the establishment and improvement of analytic as well as numerical methods for predicting multiphase reactors. Thereby, the development, lay-out and scale-up of such processes should be possible on a more reliable basis.
Turbomachinery CRC Press
Logan's Turbomachinery: Flowpath Design and Performance Fundamentals, Third Edition is the long-awaited revision of this classic textbook, thoroughly updated by Dr. Bijay Sultanian. While the basic concepts remain constant, turbomachinery design has advanced since the Second Edition was published in 1993. Airfoils in modern turbomachines feature three-dimensional geometries, Computational Fluid Mechanics (CFD) has become a standard design tool, and major advances have been made in the materials and manufacturing technologies that affect turbomachinery design. The new edition adresses these trends to best serve today's students, and design engineers working in turbomachinery industries.
Whitaker's Cumulative Book List PHI Learning Pvt. Ltd.
The text is based on a course on turbomachinery which the author has taught since year 2000 as a technical elective. Topics include; Energy Transfer in Turbomachines, Gas and Steam Turbines, and Hydraulic Turbines. New material on wind turbines, and three-dimensional effects in axial turbomachines is included. The level is kept as such that students can smoothly move from a study of the most successful books in thermodynamics, fluid dynamics, and heat transfer to the subject of turbomachinery. The chapters are organized in such a way that the more difficult material is left to the later sections of each chapter. Thus, depending on the level of the students, instructors can tailor their course by omitting some sections. Key features: Combines theory and applications to show how gas turbines, pumps and compressor function Allows for a smooth transition from the study of thermodynamics, fluid dynamics, and heat transfer to the subject of turbomachinery for students and professionals Relates turbomachinery to new areas such as wind power and three-dimensional effects in axial turbomachines Provides information on several types of turbomachinery rather than concentrating specifically on one type such as centrifugal compressors

News in Engineering Springer Science & Business Media
"This entirely updated and enlarged Second Edition broadens the scope of the previous edition while maintaining its concise, easy-to-read style in presenting the basic principles of turbomachine theory and its application to specific devices -- providing immediately useful step-by-step procedures that show how the essentials of turbomachinery are applied in design and to predict performance. "
An Introduction to Energy Conversion New Age International
The XIV International Symposium on Brain Edema and Brain Tissue Injury took place in Warsaw, Poland, on 11–14 June 2008. Two prominent members of the International Society for Brain Edema: Dr. Igor Klatzo and Dr. Julien Hoff have passed away after the last 2005 Symposium in Ann Arbor, USA. Dr. Igor Klatzo was actually the founder of the Society, and the Advisory Board decided to commemorate Dr. Igor Klatzo by introducing a lecture named after him to be given at the Symposium. Prof. Dr. Hans-Jürgen Reulen has been honored to give the frst Igor Klatzo lecture entitled “Bulk Flow and Diffusion revisited, and Clinical Applications”. This volume contains 65 out of the 104 papers presented at the Symposium as lectures or posters. The topics of the Symposium were similar to those discussed at the previous ones. Many discussions focused on clinical work especially diagnosis, subarachnoid hemorrhage, hydrocephalus, and traumatic brain injury. Diagnosis and therapy, including surgical methods, have also been verifed. Much attention was drawn to the application of decompressive craniectomy in the treatment of posttr- matic intracranial hypertension. The pathomechanisms of brain edema and tissue injury studied in experimental models have been also presented.
An Introduction to Energy Conversion: Energy conversion cycles New Age International
This text covers the basic principles of turbomachinery in a clear, practical presentation that ties theory logically and rigorously with the design and application part of turbomachines such as centrifugal compressors, centrifugal pumps, axial flow compressors, steam and gas turbines, and hydraulic turbines. The contents of the book have been designed to meet the requirements of undergraduate and postgraduate students of mechanical engineering. The book helps students develop an intuitive understanding of fluid machines by honing them through a systematic problem-solving methodology. Key Features Simple and elegant presentation to enable students to grasp the essentials of the subject easily and quickly Focuses on problem-solving techniques Provides an excellent selection of more than 300 graded solved examples to foster understanding of the theory Gives over 100 chapter-end problems Provides a succinct summary of equations at the end of each chapter Provides solutions to several question papers at the end of the book.
Turbomachinery CRC Press
The Revised Edition Of A Widely Used Book Contains Several New Topics To Make The Coverage More Comprehensive And Contemporary. * Highlights The Ozone Hole Problem And Related Steps To Modify The Refrigeration Systems. * The Discussion Of Vapour Compression/Absorption Systems Totally Recast With A Special Emphasis On Eco-Refrigerants. * Application Oriented Approach Followed Throughout The Book And Energy Efficiencyemphasised. * Several Real Life Problems Included To Illustrate The Practical Viability Of The Systems Discussed. * Additional Examples, Diagrams And Problems Included In Each Chapter For An Easier Grasp Of The Subject.With All These Features, This Book Would Serve As A Comprehensive Text For Undergraduate Mechanical Engineering Students. Postgraduate Students And Practising Engineers Would Also Find It Very Useful.
Science Reporter New Age International
Turbomachinery: Concepts, Applications, and Design is an introductory turbomachinery textbook aimed at seniors and first year graduate students, giving balanced treatment of both the concepts and design aspects of turbomachinery, based on sound analysis and a strong theoretical foundation. The text has three sections, Basic Concepts, Incompressible Fluid Machines; and Compressible Fluid Machines. Emphasis is on straightforward presentation of key concepts and applications, with numerous examples and problems that clearly link theory and practice over a wide range of engineering areas. Problem solutions and figure slides are available for instructors adopting the text for their classes.
Turbomachinery CRC Press
The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 – 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.
Principles of Turbomachinery John Wiley & Sons
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.
The Publishers' Trade List Annual Vikas Publishing House
This text outlines the fluid and thermodynamic principles that apply to all classes of turbomachines, and the material has been presented in a unified way. The approach has been used with successive groups of final year mechanical engineering students, who have helped with the development of the ideas outlined. As with these students, the reader is assumed to have a basic understanding of fluid mechanics and thermodynamics. However, the early chapters combine the relevant material with some new concepts, and provide basic reading references. Two related objectives have defined the scope of the treatment. The first is to provide a general treatment of the common forms of turbo machine, covering basic fluid dynamics and thermodynamics of flow through passages and over surfaces, with a brief derivation of the fundamental governing equations. The second objective is to apply this material to the various machines in enough detail to allow the major design and performance factors to be appreciated. Both objectives have been met by grouping the machines by flow path rather than by application, thus allowing an appreciation of points of similarity or difference in approach.

No attempt has been made to cover detailed points of design or stressing, though the cited references and the body of information from which they have been taken give this sort of information. The first four chapters introduce the fundamental relations, and the suc ceeding chapters deal with applications to the various flow paths.

The Engineering Designer John Wiley & Sons

This book constitutes the refereed proceedings of the Second International Conference on Smart Trends in Information Technology and Computer Communications, SmartCom 2017, held in Pune, India, in August 2017. The 38 revised papers presented were carefully reviewed and selected from 310 submissions. The papers address issues on smart and secure systems; smart and service computing; smart data and IT innovations.

Fundamentals Of Turbomachinery Springer Nature

Designed for a one-semester course, this comprehensive and student-friendly book provides clear explanation of various fundamental concepts in turbo machines. While it serves as a textbook for the undergraduate and postgraduate students, it serves equally well as reference for those preparing for AMIE, GATE, UPSC and TNPSC examinations on Mechanical Engineering.

Brain Edema XIV Springer Science & Business Media

The book deals with various compressible flow turbomachines like steam, gas and hydraulic turbines. Common features together with principles involved in design of these turbines are discussed. A section deals with dimensional analysis and its applications to turbomachinery. Energy exchange in turbomachines has been covered with the help of Euler equation. The design principles of the Pelton wheel, Francis turbine and the Kaplan turbine have been presented together with centrifugal and axial flow pumps. The fact that turbomachines can transmit power somewhat like gear trains has been presented in chapter on hydraulic transmissions. The material presented will be a useful text on turbomachines for students of mechanical engineering.

Books from India John Wiley & Sons

Turbomachinery Springer Science & Business Media

Principles of Turbomachinery CRC Press

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