

Fundamentals of ***TURBOMACHINERY***



William W. Peng

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Fundamentals of Turbomachinery William W. Peng, 2007-12-21 A comprehensive introduction to turbomachines and their applications With up to date coverage of all types of turbomachinery for students and practitioners Fundamentals of Turbomachinery covers machines from gas steam wind and hydraulic turbines to simple pumps fans blowers and compressors used throughout industry After reviewing the history of turbomachinery and the fluid mechanical principles involved in their design and operation the book focuses on the application and selection of machines for various uses teaching basic theory as well as how to select the right machine for a specific use With a practical emphasis on engineering applications of turbomachines this book discusses the full range of both turbines and pumping devices For each type the author explains Basic principles Preliminary design procedure Ideal performance characteristics Actual performance curves published by the manufacturers Application and appropriate selection of the machine Throughout worked sample problems illustrate the principles discussed and end of chapter problems employing both SI and the English system of units provide practice to help solidify the reader s grasp of the material

Fundamentals of Turbomachinery Ryoichi Samuel Amano, William W. Peng, 2025-09-08 An accessible and up to date discussion of foundational turbomachine technology In the newly revised second edition of Fundamentals of Turbomachinery Theory and Applications a team of distinguished researchers delivers an accessible introduction to turbomachinery taking readers from a foundational understanding of the subject to application ready knowledge The book explores basic and advanced turbomachinery technologies including fans blowers and compressors as well as gas turbines steam turbines hydro turbines wind turbines and hybrid power generation among others The book also covers emerging technologies in the field such as simulation technologies computer assisted design security issues and the impact of artificial intelligence AI technology Readers will also find A straightforward introduction to turbomachinery that equips students to select turbomachines in practice confidently Comprehensive explorations of hybrid power generation including coverage of contemporary energy capture and storage technology Practical discussions of hydroelectric turbines including Pelton Francis and Kaplan turbines Complete treatments of radial mixed flow and axial flow pumps and compressors Perfect for undergraduate and graduate students with an interest in turbomachinery Fundamentals of Turbomachinery Theory and Applications will also benefit technical engineers practicing researchers and students at technical and junior colleges

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and hybrid power generation among others The book also covers emerging technologies in the field such as simulation technologies computer assisted design security issues and the impact of artificial intelligence AI technology Readers will also find A straightforward introduction to turbomachinery that equips students to select turbomachines in practice confidently Comprehensive explorations of hybrid power generation including coverage of contemporary energy capture and storage technology Practical discussions of hydroelectric turbines including Pelton Francis and Kaplan turbines Complete treatments of radial mixed flow and axial flow pumps and compressors Perfect for undergraduate and graduate students with an interest in turbomachinery Fundamentals of Turbomachinery Theory and Applications will also benefit technical engineers practicing researchers and students at technical and junior colleges *Encyclopedia of Global Resources* ,2010 Applied Mechanics Reviews ,1988 The Cumulative Book Index ,1965 A world list of books in the English language Fundamentals of Turbomachinery VENKANNA, B. K.,2009 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 Subject Guide to Books in Print ,1996 Principles of Turbomachinery Seppo A. Korpela,2012-01-03 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 **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

Fluid Mechanics, Thermodynamics of Turbomachinery Sydney Lawrence Dixon, 1978 Revised and updated this well established and highly successful book gives a competent account of the fundamental theory of turbomachines A concise and unified approach to the subject is employed which fills the need for a comprehensive introductory text suitable for most engineering curricula The theoretical approach based firmly on the fundamental principles of thermodynamics and fluid mechanics makes the book particularly suitable for undergraduate courses It has also proved very useful to professional engineers who require a relevant text on the basic physical processes in turbomachines and their theoretical representation Several modifications have been incorporated in the text in the light of recent advances in the subject Further information on cavitation has been included and a new section on the optimum design of a pump inlet taking account of cavitation limitations has been added Certain chapters have been extended the section on Constant specific mass flow design now includes the flow equations for a following rotor row and the section on the definition of blade shapes has been extended to include the parabolic arc camber line blade A list of symbols used in the text has been added Each chapter contains a selection of useful problems and answers are provided at the end of the book SI Metric units are used throughout

Fluid Mechanics and Thermodynamics of Turbomachinery S. L. Dixon, Sydney Lawrence Dixon, Cesare A. Hall, 2010 Turbomachinery is a challenging and diverse field with applications for professionals and students in many subsets of the mechanical engineering discipline including fluid mechanics combustion and heat transfer dynamics and vibrations as well as structural mechanics and materials engineering Originally published more than 40 years ago Fluid Mechanics and Thermodynamics of Turbomachinery is the leading turbomachinery textbook Used as a core text in senior undergraduate and graduate level courses this book will also appeal to professional engineers in the aerospace global power oil Dimensional Analysis Similitude Two dimensional Cascades Axial flow Turbines Mean line Analysis and Design Axial flow Compressors and Ducted Fans Three dimensional Flows in Axial Turbomachines Centrifugal Pumps Fans and Compressors Radial Flow Gas Turbines Hydraulic Turbines Wind Turbines Appendices NEW AND KEY FEATURES Provides the most comprehensive coverage of the fundamentals of turbomachinery of any text in the field Content has been reorganized to more closely match how instructors currently teach the course Coverage of fluid mechanics and thermodynamics the basis on which good turbomachine performance depends has been moved to the front of the book Includes new design studies of several turbomachines applying the theories developed in the book Figures have been updated along with new photos added

to better illustrate the topics presented Includes new examples and additional end of chapter exercises

Fundamentals of Turbomachines Erik Dick, 2015-03-09 This book explores the working principles of all kinds of turbomachines The same theoretical framework is used to analyse the different machine types Fundamentals are first presented and theoretical concepts are then elaborated for particular machine types starting with the simplest ones For each machine type the author strikes a balance between building basic understanding and exploring knowledge of practical aspects Readers are invited through challenging exercises to consider how the theory applies to particular cases and how it can be generalised The book is primarily meant as a course book It teaches fundamentals and explores applications It will appeal to senior undergraduate and graduate students in mechanical engineering and to professional engineers seeking to understand the operation of turbomachines Readers will gain a fundamental understanding of turbomachines They will also be able to make a reasoned choice of turbomachine for a particular application and to understand its operation Basic design of the simplest turbomachines as a centrifugal fan an axial steam turbine or a centrifugal pump is also possible using the topics covered in the book

Fluid Mechanics and Thermodynamics of Turbomachinery S. Larry Dixon, 2005-03-30 The new edition will continue to be of use to engineers in industry and technological establishments especially as brief reviews are included on many important aspects of Turbomachinery giving pointers towards more advanced sources of information For readers looking towards the wider reaches of the subject area very useful additional reading is referenced in the bibliography The subject of Turbomachinery is in continual review and while the basics do not change research can lead to refinements in popular methods and new data can emerge This book has applications for professionals and students in many subsets of the mechanical engineering discipline with carryover into thermal sciences which include fluid mechanics combustion and heat transfer dynamics and vibrations as well as structural mechanics and materials engineering An important long overdue new chapter on Wind Turbines with a focus on blade aerodynamics with useful worked examples Includes important material on axial flow compressors and pumps Example questions and answers throughout

Principles of Turbomachinery R. K. Turton, 2012-12-06 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 succeeding chapters deal with applications to the various flow paths Turbomachinery Marco Gambini, Michela Vellini, 2020-09-17 This book presents a selection of preliminary sizing procedures for turbomachinery Applicable to both conventional and non conventional fluids these procedures enable users to optimize the kinematics thermodynamics and geometry of the turbomachinery in the preliminary design phase using geometric correlations and losses models to accurately predict the efficiency of turbomachinery in most cases in excellent agreement with CFD calculations and to consistently analyze all turbomachines axial and radial turbines axial and centrifugal compressors centrifugal pumps The book is intended for bachelor s and master s students in industrial mechanical and energy engineering as well as researchers and professionals in the energy systems and turbomachinery sectors guiding them step by step through the first sizing of turbomachines and the verification of the technological feasibility of turbomachines designed for new conversion systems operating with unconventional fluids *Principles of Turbomachinery* Seppo A. Korpela, 2019-05-30 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 **Turbomachinery Flow Physics and Dynamic Performance** Meinhard T. Schobeiri, 2004-11-12 Over the past three decades turbomachines experienced a steep increase in efficiency and performance Based on fundamental principles of turbomachinery thermo fluid mechanics numerous CFD based calculation methods are being developed to simulate the complex 3 dimensional highly unsteady turbulent flow within turbine or compressor stages The objective of this book is to present the fundamental principals of turbomachinery fluid thermodynamic design process of turbine and compressor components power generation and aircraft gas turbines in a unified and compact manner The book provides senior undergraduate students graduate students and engineers in the turbomachinery industry with a solid background of turbomachinery flow physics and performance fundamentals that are essential for understanding turbomachinery performance and flow complexes **Turbomachinery Flow Physics and Dynamic Performance** Meinhard T. Schobeiri, 2012-05-01 With this second revised and extended edition the readers have a solid source of information for designing state of the art turbomachinery components and systems at hand Based on fundamental principles of turbomachinery thermo fluid mechanics numerous CFD based calculation methods are being developed to simulate the complex 3 dimensional highly unsteady turbulent flow within turbine or compressor stages The objective of this book is to present the fundamental principles of turbomachinery fluid thermodynamic design process of turbine and compressor components power generation and aircraft gas turbines in a unified and compact manner The book provides senior undergraduate students graduate students and engineers in the turbomachinery industry with a solid background of turbomachinery flow physics and performance fundamentals that are essential for understanding turbomachinery performance and flow complexes While maintaining the unifying character of the book structure in this second revised and extended edition all chapters have undergone a rigorous update and enhancement Accounting for the need of the turbomachinery community three chapters have been added that deal with computationally relevant aspects of turbomachinery design such as boundary layer transition turbulence and boundary layer Logan's Turbomachinery Bijay Sultanian, 2019-01-15 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

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