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~~Mechanical Engineering I SPPU Unit I~~

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~~Section 2 \\ CH 2 Types And~~

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Concept of Velocity Triangle How does a

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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 ...

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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.

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



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W. Peng 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

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W. F. Rogers, a centrifugal fan, an axial steam turbine or a centrifugal pump, is also possible using the topics covered in the book.

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

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W. Peng 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

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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.

Principles of Nuclear Rocket Propulsion provides an understanding of the physical principles underlying the design and operation of nuclear fission-based rocket engines. While there are numerous texts available describing rocket engine theory and nuclear reactor theory, this is the first book available describing the integration

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of the two subject areas. Most of the book's emphasis is primarily on nuclear thermal rocket engines, wherein the energy of a nuclear reactor is used to heat a propellant to high temperatures and then expel it through a nozzle to produce thrust. Other concepts are also touched upon such as a section devoted to the nuclear pulse rocket concept wherein the force of externally detonated nuclear explosions is used to accelerate a spacecraft. Future crewed space missions beyond low earth orbit will almost certainly require propulsion systems with performance levels exceeding that of today's best chemical engines. A likely candidate for that propulsion system is the solid core Nuclear Thermal Rocket or NTR. Solid core NTR engines are expected to have performance levels which significantly exceed that achievable by any currently conceivable chemical engine. The

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challenge is in the engineering details of the design which includes not only the thermal, fluid, and mechanical aspects always present in chemical rocket engine development, but also nuclear interactions and some unique materials restrictions. Sorts and organizes information on various types of nuclear thermal rocket engines into a coherent curriculum Includes a number of example problems to illustrate the concepts being presented Features a companion site with interactive calculators demonstrating how variations in the constituent parameters affect the physical process being described Includes 3D figures that may be scaled and rotated to better visualize the nature of the object under study

Building on the success of its predecessor,

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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 Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision

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includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and



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W.Peng. In depth treatment of Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NO<sub>x</sub> Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

This book is intended for advanced undergraduate and graduate students in mechanical and aerospace engineering taking a course commonly called

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Principles of Turbomachinery or Aerospace Propulsion. The book begins with a review of basic thermodynamics and fluid mechanics principles to motivate their application to aerothermodynamics and real-life design issues. This approach is ideal for the reader who will face practical situations and design decisions in the gas turbine industry. The text is fully supported by over 200 figures, numerous examples, and homework problems.

A modern pedagogical treatment of the latest industry trends in rocket propulsion, developed from the authors' extensive experience in both industry and academia. Students are guided along a step-by-step journey through modern rocket propulsion, beginning with the historical context and an introduction to top-level performance measures, and progressing on to in-depth discussions of the chemical aspects of

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fluid flow combustion thermochemistry and chemical equilibrium, solid, liquid, and hybrid rocket propellants, mission requirements, and an overview of electric propulsion. With a wealth of homework problems (and a solutions manual for instructors online), real-life case studies and examples throughout, and an appendix detailing key numerical methods and links to additional online resources, this is a must-have guide for senior and first year graduate students looking to gain a thorough understanding of the topic along with practical tools that can be applied in industry.

A practical, illustrated guide to thermal science A practical, illustrated guide to thermal science Written by a subject-matter expert with many years of academic and industrial experience, Thermal Science provides detailed yet

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W.Feng concise coverage of thermodynamics, fluid mechanics, and heat transfer. The laws of thermodynamics are discussed with emphasis on their real-world applications. This comprehensive resource clearly presents the flow-governing equations of fluid mechanics, including those of mass, linear momentum, and energy conservation. Flow behavior through turbomachinery components is also addressed. The three modes of heat transfer--conduction, convection, and radiation--are described along with practical applications of each. Thermal Science covers: Properties of pure substances and ideal gases First and second laws of thermodynamics Energy conversion by cycles Power-absorbing cycles Gas power cycles Flow-governing equations External and internal flow structures Rotating machinery fluid mechanics Variable-geometry

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