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this revised book covers the fundamentals of thermodynamics required to understand electrical power generation systems honing in on the application of these principles to nuclear reactor power systems this text treats the fundamentals of thermodynamics from the perspective of nuclear power systems in addition to the four laws of thermodynamics it discusses brayton and rankine power cycles in detail with an emphasis on how they are implemented in nuclear systems chapters have been brought up to date due to significant new results that have become available for intercooled systems and combined cycles and include an updated steam

table the book starts with basic principles of thermodynamics as applied to power plant systems it then describes how nuclear air brayton systems will work it documents how they can be designed and the expected ultimate performance it describes several types of nuclear air brayton systems that can be employed to meet different requirements and estimates component sizes and performance criteria for small modular reactors smr based on the air brayton concept the book provides useful insight into the engineering of nuclear power systems for students and the tabular data will be of great use to practicing engineers

thermodynamics deals with energy interactions between material bodies it is the science of 3e s namely energy entropy and equilibrium the applications of its laws and principles are found in all fields of energy technology notably in steam gas and nuclear power plants internal combustion engines gas turbines jet propulsion refrigeration air conditioning compressors gas dynamics and direct energy conversion starting with the basic concept the book discusses the important topics such as basic concepts heat and work energy ideal and real gases zeroth first and second laws of thermodynamics entropy and third law available energy and exergy gas power cycles vapour power cycles general thermodynamic relations refrigeration cycles psychrometry non reactive mixtures reactive mixture chemical equilibrium direct energy conversion compressible flows and heat transfer the book is an essential text for be b tech for mechanical engineering students upsc and gate examinations

chemical thermodynamics the essentials offers a comprehensive and accessible exploration of the fundamental principles and practical applications of thermodynamics in chemical systems designed for students researchers and professionals this book delves into the energetic underpinnings of chemical reactions and processes covering basic principles to advanced topics like phase equilibria and chemical kinetics each chapter provides clear explanations illustrative examples and practical applications the book adopts a rigorous approach to ensure a solid understanding of the subject matter systematically presenting complex concepts and emphasizing a strong theoretical foundation practical relevance is highlighted through applications in chemical engineering environmental science and materials science thought provoking exercises accompany each chapter fostering critical thinking and practical problem solving helpful pedagogical tools such as chapter summaries key terms and glossaries aid comprehension and serve as valuable references beyond being a textbook chemical thermodynamics the essentials aims to inspire curiosity and exploration in the field of thermodynamics engaging narratives and insightful discussions encourage readers to delve deeper into the fascinating world of chemical energetics whether you're a student or a seasoned researcher this book offers a comprehensive and engaging resource to deepen your understanding of chemical thermodynamics and unlock the mysteries of the energetic heart of chemistry

advanced thermodynamics covers extensive coverage of thermodynamics applications detailed discussion on chemical thermodynamics explanation of combustion

phenomena discussion on entropy exergy and its applications application of phases and gibbs rule statistical thermodynamics description of various distributions and partition function thermodynamic laws and their applications information on gas mixtures thermodynamic property relations

this book of chemical petroleum engineering contains of various topics it covers different type of question with their answers and fill in the blanks required data and equations are given for day to day calculations of chemical engineering topics this book is necessary tool or an instrument for chemical petroleum engineers

the most up to date treatise on engineering thermodynamics available incorporating the most complete compilation of original sources in print a captivating writing style and exceptional graphics enliven the treatment which maintains a balance between advanced analysis and thoughtful presentation of the history of ideas in this very active field presents the axiomatic and gibbsian mathematical formulation of classical thermodynamics a modern look at second law exergy analysis and the latest research developments including power generation in finite time low temperature refrigeration irreversible thermodynamics and solar energy conversion contains many worked examples and a first rate solutions manual

this book is primarily intended to serve as a textbook and reference work for graduate and professional training coursework on solar desalination of water the book begins with an introduction to the increasing demand for potable water various types of water pollution and its impacts on human health and goes on to cover basics of desalination technologies it covers all aspects of solar energy based distillation and desalination for producing potable water resources including radiation and heat transfer concepts a history of solar distillation systems and background on solar collectors the contents include thermal modeling and parametric study of solar distillation energy and exergy aspects are analyzed in detail including energy matrices of solar distillation a special chapter on exeroeconomics introduces fundamental equations which include the general balance equation thermodynamic balance equations and economic balance equations a chapter on economic analysis of solar distillation completes the coverage the book includes solved examples and end of chapter exercises in the form of both problems and objective type questions the contents of this book are useful to students researchers professionals and policymakers looking for a comprehensive resource on solar desalination

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