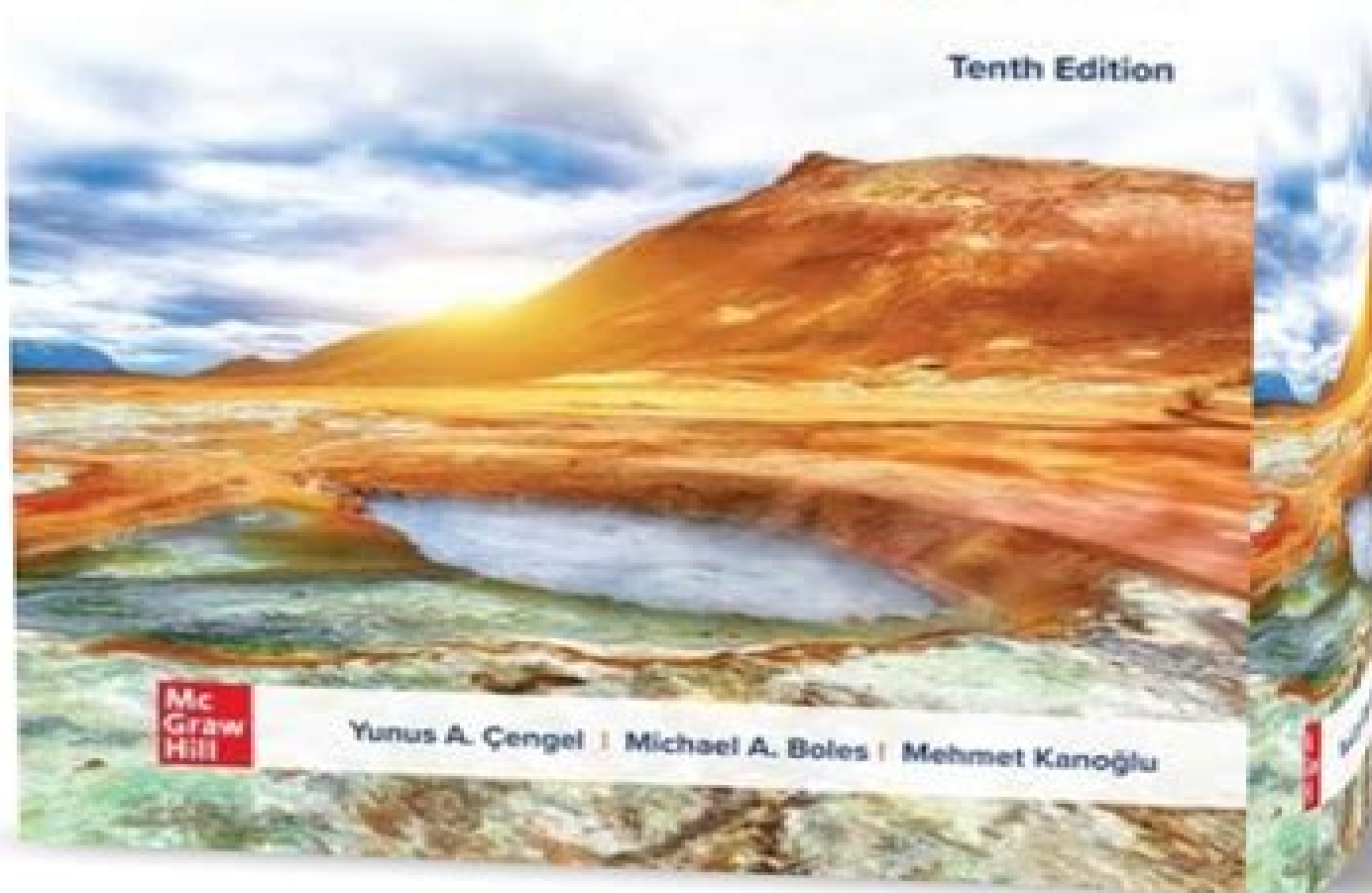


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Tenth Edition



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Exergetic, Energetic and Environmental Dimensions Ibrahim Dincer, Can Ozgur Colpan, Onder Kizilkan, 2017-10-06 This edited book looks at recent studies on interdisciplinary research related to exergy energy and the environment This topic is of prime significance there is a strong need for practical solutions through better design analysis and assessment in order to achieve better efficiency environment and sustainability Exergetic Energetic and Environmental Dimensions covers a number of topics ranging from thermodynamic optimization of energy systems to the environmental impact assessment and clean energy offering readers a comprehensive reference on analysis modeling development experimental investigation and improvement of many micro to macro systems and applications ranging from basic to advanced categories Its comprehensive content includes Comprehensive coverage of development of systems considering exergy energy and environmental issues along with the most up to date information in the area plus recent developments New developments in the area of exergy including recent debate involving the shaping of future directions and priorities for better environment sustainable development and energy security Provides a number of illustrative examples practical applications and case studies Introduces recently developed technological and strategic solutions and engineering applications for professionals in the area Provides numerous engineering examples and applications on exergy Offers a variety of problems that foster critical thinking and skill development

Shallow Geothermal Energy Alejandro García Gil, Eduardo Antonio Garrido Schneider, Miguel Mejías Moreno, Juan Carlos Santamarta Cerezal, 2022-01-31 This book is the outcome of more than a decade of research and technical development activities at Spain's Geological Survey IGME concerning shallow geothermal energy which were pursued in collaboration with other public bodies and European entities It presents a compilation of papers on the theoretical

foundations of and practical aspects needed to understand the thermal regime of the topmost subsoil up to 400 m deep and the exceptional properties that this underground environment offers which make it the ideal thermal reservoir for heating ventilation and air conditioning HVAC In the book's first section the basic theory of thermodynamics as applied to shallow geothermal energy heat transfer and fluid mechanics in the geological porous medium is developed The nature of the subsoil's thermal regime in general and in the urban environment in particular is described The second section introduces readers to the fundamental aspects of thermal installations equipped with geothermal heat pumps describes the types of geothermal exchangers most commonly used and reviews the techniques used to obtain the thermal parameters of the terrain It also discusses the potential environmental impacts of shallow geothermal activity and corresponding management strategies as well as the legal aspects of its regulation for the governance of shallow geothermal resources in the EU in general and Spain in particular In closing the book highlights examples of the methodologies applications developed by IGME in the city of Zaragoza and the Canary Islands The theoretical foundations systematics and concrete applications make the book a valuable reference source for hydrogeologists engineers and specialized technicians alike **Mechanical Engineering News**, 1981

General Thermodynamics Donald Olander, 2007-11-26 Because classical thermodynamics evolved into many branches of science and engineering most undergraduate courses on the subject are taught from the perspective of each area of specialization General Thermodynamics combines elements from mechanical and chemical engineering chemistry including electrochemistry materials science and biology to present a unique and thorough treatment of thermodynamics that is broader in scope than other fundamental texts This book contains classroom tested materials designed to meet the academic requirements for students from a variety of scientific and engineering backgrounds in a single course The first half focuses on classical concepts of thermodynamics whereas the latter half explores field specific applications including a unique chapter on biothermodynamics The book's methodology is unified concise and multidisciplinary allowing students to understand how the principles of thermodynamics apply to all technical fields that touch upon this most fundamental of scientific theories It also offers a rigorous approach to the quantitative aspects of thermodynamics accompanied by clear explanations to help students transition smoothly from the physical concepts to their mathematical representations Each chapter contains numerous worked examples taken from different engineering applications illustrations and an extensive set of exercises to support the material A complete solutions manual is available to professors with qualifying course adoptions

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Fundamentals of Turbulent and Multiphase Combustion Kenneth K. Kuo,Ragini Acharya,2012-07-03 Detailed coverage of advanced combustion topics from the author of Principles of combustion Second Edition Turbulence turbulent combustion and multiphase reacting flows have become major research topics in recent decades due to their application across diverse fields including energy environment propulsion transportation industrial safety and nanotechnology Most of the knowledge accumulated from this research has never been published in book form until now Fundamentals of Turbulent and Multiphase Combustion presents up to date integrated coverage of the fundamentals of turbulence combustion and multiphase phenomena along with useful experimental techniques including non intrusive laser based measurement techniques providing a firm background in both contemporary and classical approaches Beginning with two full chapters on laminar premixed and non premixed flames this book takes a multiphase approach beginning with more common topics and moving on to higher level applications In addition Fundamentals of Turbulent and Multiphase Combustion Addresses seven basic topical areas in combustion and multiphase flows including laminar premixed and non premixed flames theory of turbulence turbulent premixed and non premixed flames and multiphase flows Covers spray atomization and combustion solid propellant combustion homogeneous propellants nitramines reacting boundary layer flows single energetic particle combustion and granular bed combustion Provides experimental setups and results whenever appropriate Supported with a large number of examples and problems as well as a solutions manual Fundamentals of Turbulent and Multiphase Combustion is an important resource for professional engineers and researchers as well as graduate students in mechanical chemical and aerospace engineering Chemical Engineering Design and Analysis T. Michael Duncan,Jeffrey A. Reimer,2019-01-24 The go to guide to learn the principles and practices of design and analysis in chemical engineering **Solutions Manual to Accompany**

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