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Thermodynamics is a self-contained analysis of physical and chemical processes based on classical thermodynamic principles. Emphasis is placed on the fundamental principles with a combination of theory and practice, demonstrating their application to a variety of disciplines. This edition has been completely revised and updated to include new material and novel formulations, including new formulation and interpretation of The Second Law, discussions of heat vs. work, uniqueness of chemical potential, and construction of functions of state. This book will appeal to graduate students and professional chemists and physicists who wish to acquire a more sophisticated overview of thermodynamics and related subject matter. Clear explanations of abstract theoretical concepts Complete revision and update, including novel formulations not described elsewhere Exhaustive coverage of graphical, numerical, and analytical computational techniques The latest applications in science and engineering

This book serves as a reference for engineers, scientists, and students concerned with the use of materials in applications where reliability and resistance to corrosion are important. It updates the coverage of its predecessor, including coverage of: corrosion rates of steel in major river systems and atmospheric corrosion rates, the corrosion behavior of materials such as weathering steels and newer stainless alloys, and the

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corrosion behavior and engineering approaches to corrosion control for nonmetallic materials. New chapters include: high-temperature oxidation of metals and alloys, nanomaterials, and dental materials, anodic protection. Also featured are chapters dealing with standards for corrosion testing, microbiological corrosion, and electrochemical noise.

Continuing the mission of the first two editions, *Food Emulsions: Principles, Practices, and Techniques*, Third Edition covers the fundamentals of emulsion science and demonstrates how this knowledge can be applied to control the appearance, stability, and texture of emulsion-based foods. Initially developed to fill the need for a single resource co

Characterization of Liquids, Dispersions, Emulsions and Porous Materials Using Ultrasound, Third Edition, presents a scientific background for novel methods of characterizing homogeneous and heterogeneous liquids (dispersions, emulsions, and gels) as well as porous materials. Homogeneous liquids are characterized in rheological terms, whereas particle-size distribution and zeta potential are parameters of heterogeneous liquids. For porous materials, porosity, pore size, and zeta potential are output characteristics. These methods are based on ultrasound, which opens an opportunity for simplifying the sample preparation by eliminating dilution. This in turn, makes measurements faster, easier, precise, suitable for accurate quality control, PAT, and formulation of complex systems. This book provides theoretical background of acoustics, rheology, colloid science, electrochemistry, and other relevant scientific fields, describing principles of existing instrumentation and, in particular, commercially available instruments. Finally, the book features an extensive list of existing applications. Presents a theoretical multi-disciplinary background of several new ultrasound analytical techniques in one place Validates the theoretical basis of several new analytical

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techniques Compares the efficiency and applications of various ultrasound techniques Lists many ultrasound applications in colloid chemistry Contains an extensive bibliography on this multidisciplinary topic

Throughout its previous four editions, Combustion has made a very complex subject both enjoyable and understandable to its student readers and a pleasure for instructors to teach. With its clearly articulated physical and chemical processes of flame combustion and smooth, logical transitions to engineering applications, this new edition continues that tradition. Greatly expanded end-of-chapter problem sets and new areas of combustion engineering applications make it even easier for students to grasp the significance of combustion to a wide range of engineering practice, from transportation to energy generation to environmental impacts. Combustion engineering is the study of rapid energy and mass transfer usually through the common physical phenomena of flame oxidation. It covers the physics and chemistry of this process and the engineering applications—including power generation in internal combustion automobile engines and gas turbine engines. Renewed concerns about energy efficiency and fuel costs, along with continued concerns over toxic and particulate emissions, make this a crucial area of engineering. New chapter on new combustion concepts and technologies, including discussion on nanotechnology as related to combustion, as well as microgravity combustion, microcombustion, and catalytic combustion—all interrelated and discussed by considering scaling issues (e.g., length and time scales) New information on sensitivity analysis of reaction mechanisms and generation and application of reduced mechanisms Expanded coverage of turbulent reactive flows to better illustrate real-world applications Important new sections on stabilization of diffusion flames—for the first time, the concept of triple flames will be introduced and discussed in the context of diffusion flame stabilization

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A brand new book, FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS makes the abstract subject of chemical engineering thermodynamics more accessible to undergraduate students. The subject is presented through a problem-solving inductive (from specific to general) learning approach, written in a conversational and approachable manner. Suitable for either a one-semester course or two-semester sequence in the subject, this book covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical engineering problems. The approach taken stresses problem-solving, and draws from best practice engineering teaching strategies. FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS uses examples to frame the importance of the material. Each topic begins with a motivational example that is investigated in context to that topic. This framing of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with abstractions. Each worked example is fully annotated with sketches and comments on the thought process behind the solved problems. Common errors are presented and explained. Extensive margin notes add to the book accessibility as well as presenting opportunities for investigation. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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