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A solid theoretical foundation enables students to understand basic phenomena underlying the unit operations but real-world applications are also

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sufficiently covered. Table of Contents. Preface 1 Definitions and Principles 2 Fluid Statics and Its Applications ... Unit Operations of Chemical Engineering.

Microfluidics represent great potential for chemical processes design, development, optimization, and chemical engineering bolsters the project design of industrial processes often found in large chemical plants. Together, microfluidics and chemical engineering can lead to a more complete and comprehensive process. Process Analysis, Design, and Intensification in Microfluidics and Chemical Engineering provides emerging research exploring the theoretical and practical aspects of microfluidics and its application in chemical engineering with the intention of building pathways for new processes and product developments in industrial areas. Featuring coverage on a broad range of topics such as design techniques, hydrodynamics, and numerical modelling, this book is ideally designed for engineers, chemists, microfluidics and chemical engineering companies, academicians, researchers, and students.

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At the heart of many fields - physics, chemistry, engineering - lies thermodynamics. While this science plays a critical role in determining the boundary between what is and is not possible in the natural world, it occurs to many as an indecipherable black box, thus making the subject a challenge to learn. Two obstacles contribute to this situation, the first being the disconnect between the fundamental theories and the underlying physics and the second being the confusing concepts and terminologies involved with the theories. While one needn't confront either of these two obstacles to successfully use thermodynamics to solve real problems, overcoming both provides access to a greater intuitive sense of the problems and more confidence, more strength, and more creativity in solving them. This book offers an original perspective on thermodynamic science and history based on the three approaches of a practicing engineer, academician, and historian. The book synthesises and gathers into one accessible volume a strategic range of foundational topics involving the atomic theory, energy, entropy, and the laws of thermodynamics.

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Magnetochemistry is a highly interdisciplinary field that attracts the interest of chemists, physicists and material scientists. Although the general strategy of theoretical molecular magnetism has been in place for decades, its performance for extended systems of interacting magnetic units can be very complicated. Professor Boca's book treats the "mosaic" of the theoretical approaches currently used in the field. This book presents a review of the theoretical concepts of molecular magnetism. The first chapter of the book recapitulates the necessary mathematical background. An overview of macroscopic magnetic properties is then presented. Formulation of magnetic parameters and methods of their calculation are given, followed by a brief summary of magnetic behaviour. The core of the book deals with the temperature dependence of magnetic susceptibility for mononuclear complexes, dimers, and exchange-coupled clusters. This book will be particularly useful for those scientists and students working in the field of molecular magnetism who need to refer to a complete and systematic treatment of the mathematics of magneto-chemical theory.

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This volume, Engineering Technology and Industrial Chemistry with Applications, brings together innovative research, new concepts, and novel developments in the application of new tools for chemical and materials engineers. It provides a collection of innovative chapters on new scientific and industrial research from chemists and chemical engineers at several prestigious institutions. It looks at recent significant research and reports on new methodologies and important applications in the fields of chemical engineering as well as provides coverage of chemical databases, bringing together theory and practical applications. Highlighting theoretical foundations, real-world cases, and future directions, this authoritative reference source will be a valuable addition for researchers, practitioners, professionals, and students of chemistry material and chemical engineering.

This book provides an authoritative introduction to the rapidly growing field of chemical reaction network theory. In particular, the book presents deep and surprising theorems that relate the graphical and algebraic structure of a reaction network to qualitative properties of the intricate system of nonlinear differential equations that the network induces. Over the course of three main parts, Feinberg provides a gradual transition from a tutorial on the basics of reaction network theory, to a survey of some of its principal theorems, and, finally, to a discussion of the theory's more technical aspects. Written with great clarity, this book will be of value to mathematicians and to mathematically-inclined biologists, chemists, physicists, and engineers who want to contribute to chemical reaction network theory or make use of its powerful results.

Catalysts speed up a chemical reaction or allow for reactions to take place that would not otherwise occur. The chemical nature of a catalyst and its structure are crucial for interactions with reaction intermediates. An electrocatalyst is used in an electrochemical reaction, for example in a fuel cell to

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produce electricity. In this case, reaction rates are also dependent on the electrode potential and the structure of the electrical double-layer. This work provides a valuable overview of this rapidly developing field by focusing on the aspects that drive the research of today and tomorrow. Key topics are discussed by leading experts, making this book a must-have for many scientists of the field with backgrounds in different disciplines, including chemistry, physics, biochemistry, engineering as well as surface and materials science. This book is volume XIV in the series "Advances in Electrochemical Sciences and Engineering".

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