Molecular Engineering Thermodynamics Cambridge Chemical

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ChemstryThermodynamics and Statistical MechanicsPhilosophy of ChemistryPrinciples of ThermodynamicsThermodynamic Principles
for Chemical Engineers Elias I. Franses D. A. Johnson M L McGlashan D. A. Johnson J. P. O'Connell Anthony Peter Gordon Shaw
Svein Stølen Juan J. de Pablo Evgenic Nikolaevich Eremin Ilya Prigogine H. P. Stadler Scott Emerson Wood Libb Thims American
Chemical Society. Division of Pesticide Chemistry Chiranjib Kumar Gupta Johnson M. Scott Shell Andrea Woody Jean-Philippe
Ansermet Roger Gilmont

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master the principles of thermodynamics with this comprehensive undergraduate textbook carefully developed to provide students of chemical engineering and chemistry with a deep and intuitive understanding of the practical applications of these fundamental ideas and principles logical and lucid explanations introduce core thermodynamic concepts in the context of their measurement and experimental origin giving students a thorough understanding of how theoretical concepts apply to practical situations a broad range of real world applications relate key topics to contemporary issues such as energy efficiency environmental engineering and climate change and further reinforce students understanding of the core material this is a carefully organized highly pedagogical treatment including over 500 open ended study questions for discussion over 150 varied homework problems clear and objective standards for measuring student progress and a password protected solution manual for instructors

an important part of inorganic chemistry is the study of the behaviour of chemical elements and their compounds if this behaviour is to be explained with any confidence it needs first to be described in quantitative language thermodynamics provides such a language and dr johnson s 1982 book is concerned with the theoretical explanations that become possible after the translation into thermodynamic language has taken place this book will continue to be of interest to advanced undergraduate and postgraduate students of chemistry as well as teachers of chemistry in both schools and universities

specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical

in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued

thermodynamics fundamentals for applications is a text for a first graduate course in chemical engineering the focus is on macroscopic thermodynamics discussions of modeling and molecular situations are integrated throughout underpinning this text is the knowledge that while thermodynamics describes natural phenomena those descriptions are the products of creative systematic minds nature unfolds without reference to human concepts of energy entropy or fugacity natural complexity can be organized and studied by thermodynamics methodology the power of thermodynamics can be used to advantage if the fundamentals are understood this text s emphasis is on fundamentals rather than modeling knowledge of the basics will enhance the ability to combine them with models when applying thermodynamics to practical situations while the goal of an engineering education is to teach effective problem solving this text never forgets the delight of discovery the satisfaction of grasping intricate concepts and the stimulation of the scholarly atmosphere

thermites which are generally considered to be reactive mixtures of powdered metals and metal oxides are an important subset of energetic materials the underlying thermodynamic properties of a given mixture dictate whether it may undergo a self sustaining reaction liberating heat in the process thermodynamic information in the existing scientific literature regarding thermitic combinations is scattered and incomplete currently a comprehensive overview of this nature would be of great use to those working in the areas of pyrotechnics pyrometallurgy high temperature chemistry and materials science thermitic thermodynamics solves this problem by describing the results of calculations on over 800 combinations of metal metalloid and metal oxide reactants other features include a first of its kind adiabatic survey of binary thermitic reactions provides an overview of key trends in exothermic metal metal oxide reactivity describes the role of non oxide product formation in thermitic systems explains how to interpret the results of thermochemical calculations effectively an invaluable resource this book provides an accessible introduction for students and is also an enduring guide for professionals

publisher description

building up gradually from first principles this unique introduction to modern thermodynamics integrates classical statistical and molecular approaches and is especially designed to support students studying chemical and biochemical engineering in addition to covering traditional problems in engineering thermodynamics in the context of biology and materials chemistry students are also introduced to the thermodynamics of dna proteins polymers and surfaces it includes over 80 detailed worked examples covering a broad range of scenarios such as fuel cell efficiency dna protein binding semiconductor manufacturing and polymer foaming emphasizing the practical real world applications of thermodynamic principles more than 300 carefully tailored homework problems designed to stretch and extend students understanding of key topics accompanied by an online solution manual for instructors and all the necessary mathematical background plus resources summarizing commonly used symbols useful equations of state microscopic balances for open systems and links to useful online tools and datasets

chemical thermodynamics sets out to teach thermodynamics through its applications and presents the theory of the subject in short revision form while covering the syllabus required by the institution of chemical engineers the book discusses ideal systems in the

early chapters before dealing with non ideal and open systems it provides examples graded from simple to more complex which follow the brief exposition of the theory in each chapter and gives special attention to areas which students find difficult these examples were selected to illustrate the theory without being repetitive and are given at the end of each revision section followed by answers also provided are three appendices dealing with mathematical requirements constants and units and conversion factors

the aim of this book is to develop the concepts and relations pertinent to the solution of many thermodynamic problems encountered in multi phase multi component systems in doing so it emphasizes a comprehension and development of general expressions for solving such problems rather than ready made equations for particular applications throughout the book the methods of gibbs are used with emphasis on the chemical potential

human chemistry is the study of bond forming and bond breaking reactions between people and the structures they form people often speak of having either good or bad chemistry together whereby according to consensus the phenomenon of love is a chemical reaction the new science of human chemistry is the study of these reactions historically human chemistry was founded with the 1809 publication of the classic novella elective affinities by german polymath johann von goethe a chemical treatise on the origin of love goethe based his human chemistry on swedish chemist torbern bergman s 1775 chemistry textbook a dissertation on elective attractions which itself was founded on isaac newton s 1687 supposition that the cause of chemical phenomena may all depend upon certain forces by which the particles of bodies by some causes hitherto unknown are either mutually impelled towards each other and cohere in regular figures or are repelled and recede from one another which thus defines life

chemical metallurgy is a well founded and fascinating branch of the wide field of metallurgy this book provides detailed information on both the first steps of separation of desirable minerals and the subsequent mineral processing operations the complex chemical processes of extracting various elements through hydrometallurgical pyrometallurgical or electrometallurgical operations are explained in the choice of material for this work the author made good use of the synergy of scientific principles and industrial practices offering the much needed and hitherto unavailable combination of detailed treatises on both compiled in one book

learn classical thermodynamics alongside statistical mechanics and how macroscopic and microscopic ideas interweave with this fresh approach to the subjects

philosophy of chemistry investigates the foundational concepts and methods of chemistry the science of the nature of substances and their transformations this groundbreaking collection the most thorough treatment of the philosophy of chemistry ever published brings together philosophers scientists and historians to map out the central topics in the field the 33 articles address the history of the philosophy of chemistry and the philosophical importance of some central figures in the history of chemistry the nature of chemical substances central chemical concepts and methods including the chemical bond the periodic table and reaction mechanisms and chemistry s relationship to other disciplines such as physics molecular biology pharmacy and chemical engineering this volume serves as a detailed introduction for those new to the field as well as a rich source of new insights and potential research agendas for those already engaged with the philosophy of chemistry provides a bridge between philosophy and current scientific findings encourages multi disciplinary dialogue covers theory and applications

an introductory textbook presenting the key concepts and applications of thermodynamics including numerous worked examples and exercises

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