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Chemical Thermodynamics at a Glance Elementary Chemical Thermodynamics Basic Chemical Thermodynamics (Fifth Edition) Engineering and Chemical Thermodynamics Chemical Thermodynamics Understanding Chemical Thermodynamics An Introduction To Chemical Thermodynami Chemical Thermodynamics: Principles and Applications Introduction to Chemical Thermodynamics Concise Chemical Thermodynamics An Introduction To Statistical Thermodynamics Basic Chemical Thermodynamics (6th Edition) Chemical Thermodynamics Chemical Thermodynamics and Information Theory with Applications Chemical Thermodynamics: Advanced Applications Chemical Thermodynamics Chemical Thermodynamics Chemical Thermodynamics Chemical and Engineering Thermodynamics Chemical Thermodynamics: with Special Reference to Inorganic Chemistry *H. Donald Brooke Jenkins Bruce H. Mahan E Brian Smith Milo D. Koretsky Peter A. Rock George C. Pimentel R P Rastogi J. Bevan Ott Irving Myron Klotz John Richard William Warn Robert P H Gasser E Brian Smith Leo Lue Daniel J. Graham J. Bevan Ott Irving M. Klotz W.J. Rankin Ilya Prigogine Stanley I. Sandler David J. G. Ives*

chemical thermodynamics considers the energy transformations which drive or which

occur as a result of chemical reactions it is a central discipline of chemistry and chemical engineering allowing prediction of the direction of spontaneous chemical change and the position of chemical equilibrium in any reacting system being grounded in maths it is often perceived as a difficult subject and many students are never fully comfortable with it chemical thermodynamics at a glance provides a concise overview of the main principles of chemical thermodynamics for students studying chemistry and related courses at undergraduate level based on the highly successful and student friendly at a glance approach the information is presented in integrated self contained double page spreads of text and illustrative material the material developed in this book has been chosen to ensure the student grasps the essence of thermodynamics so those wanting an accessible overview will find this book an ideal source of the information they require in addition the structured presentation will provide an invaluable aid to revision for students preparing for examinations

this straightforward presentation explores chemical applications of thermodynamics as well as physical interpretations the author considers the first and second laws of thermodynamics in turn after which he proceeds to applications of thermodynamic principles emphasizing the interpretation of entropy changes and chemical behavior in terms of qualitative molecular properties 1964 edition

this widely acclaimed text now in its fifth edition and translated into many languages continues to present a clear simple and concise introduction to chemical thermodynamics an examination of equilibrium in the everyday world of mechanical objects provides the starting point for an accessible account of the factors that determine equilibrium in chemical systems this straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics which are then applied to a wide range of physico chemical systems the book also discusses the problems of non ideal solutions and the concept of activity and provides an introduction to the molecular basis of thermodynamics over five editions the views of teachers of the subject and their students have been incorporated the result is a little more rigour in specifying the dimensions within logarithmic expressions the addition of more worked examples and the inclusion of a simple treatment of the molecular basis of thermodynamics students on courses in thermodynamics will continue to find this popular book an excellent introductory text a

designed to support the way you learn whether you learn best by applying knowledge assimilating information through visuals working equations or reading explanations of concepts milo koretsky s engineering and chemical thermodynamics provides the support you need to develop a deeper and more complete understanding of thermodynamics and its application to real world problems highlights an integrated presentation of molecular concepts with thermodynamic principles provides greater

access to the material than mathematical derivations alone learning objectives and chapter summaries are organized from the most significant concepts down schematic presentations of key concepts help visual learners end of chapter problems promote real synthesis and conceptual understanding questions about key points and examples provide opportunities for reflection coverage of equilibrium in the solid phase brings you up to speed on this increasingly important topic thermosolver software solve complex problems quickly and easily improve tour ability to solve problems and understand key concepts with thermosolver software this easy to use menu driven software enables you to perform more complex calculations so you can explore a wide range of problems thermosolver software is integrated with equations from the text allowing you to make connections between thermodynamic concepts and the software output thermosolver is free for download from the student companion site at wiley com college koretsky

this textbook is a general introduction to chemical thermodynamics

calculations approach strong mathematical rigor has been applied and a complementary physical treatment given to make students strong in the applied aspects of thermodynamics problem solving presentation 195 solved examples and 269 unsolved problems have been given hints to difficult problems have been give too concept checking review questions have been given at the end of every chapter coverage on thermodynamic discussion of eutectics solid solutions and phase separation

chemical thermodynamics principles and applications presents a thorough development of the principles of thermodynamics an old science to which the authors include the most modern applications along with those of importance in developing the science and those of historical interest the text is written in an informal but rigorous style including ancedotes about some of the great thermodynamicists with some of whom the authors have had a personal relationship and focuses on real systems in the discussion and figures in contrast to the generic examples that are often used in other textbooks the book provides a basic review of thermodynamic principles equations and applications of broad interest it covers the development of thermodynamics as one of the pre eminent examples of an exact science a discussion of the standard state that emphasizes its significance and usefulness is also included as well as a more rigorous and indepth treatment of thermodynamics and discussions of a wider variety of applications than are found in more broadly based physical chemistry undergraduate textbooks combined with its companion book chemical thermodynamics advanced applications the practicing scientist will have a complete reference set detailing chemical thermodynamics outlines the development of the principles of thermodynamics including the most modern applications along with those of importance in developing the science and those of historical interest

provides a basic review of thermodynamic principles equations and applications of broad interest treats thermodynamics as one of the preeminent examples of an exact science provides a more rigorous and indepth treatment of thermodynamics and discussion of a wider variety of applications than are found in more broadly based physical chemistry undergraduate textbooks includes examples in the text and exercises and problems at the end of each chapter to assist the student in learning the subject provides a complete set of references to all sources of data and to supplementary reading sources

for first year students of chemistry and chemical engineering this book presents thermodynamics using practical chemical examples in a way that uses very little mathematics

statistical thermodynamics plays a vital linking role between quantum theory and chemical thermodynamics yet students often find the subject unpalatable in this updated version of a popular text the authors overcome this by emphasising the concepts involved in particular demystifying the partition function they do not get bogged down in the mathematical niceties that are essential for a profound study of the subject but which can confuse the beginner strong emphasis is placed on the physical basis of statistical thermodynamics and the relations with experiment after a clear exposition of the distribution laws partition functions heat capacities chemical equilibria and kinetics the subject is further illuminated by a discussion of low temperature phenomena and spectroscopy the coverage is brought right up to date with a chapter on computer simulation and a final section which ranges beyond the narrow limits usually associated with student texts to emphasise the common dependence of macroscopic behaviour on the properties of constituent atoms and molecules since first published in 1974 as entropy and energy levels the book has been very popular with students this revised and updated version will no doubt serve the same needs

this widely acclaimed text now in its sixth edition and translated into many languages continues to present a clear simple and concise introduction to chemical thermodynamics an examination of equilibrium in the everyday world of mechanical objects provides a starting point for an accessible account of the factors that determine equilibrium in chemical systems this straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics which are then applied to a wide range of physical chemical systems the book also discusses the problems of non ideal solutions and the concept of activity and provides an introduction to the molecular basis of thermodynamics over six editions the views of teachers of the subject and their students have been incorporated reference to the phase rule has been included in this edition and the notation has been revised to conform to current iupac recommendations students taking courses in

thermodynamics will continue to find this popular book an excellent introductory text

thermodynamics and information touch theory every facet of chemistry however the physical chemistry curriculum digested by students worldwide is still heavily skewed toward heat work principles established more than a century ago rectifying this situation chemical thermodynamics and information theory with applications explores applications dra

this book is an excellent companion to chemical thermodynamics principles and applications together they make a complete reference set for the practicing scientist this volume extends the range of topics and applications to ones that are not usually covered in a beginning thermodynamics text in a sense the book covers a middle ground between the basic principles developed in a beginning thermodynamics textbook and the very specialized applications that are a part of an ongoing research project as such it could prove invaluable to the practicing scientist who needs to apply thermodynamic relationships to aid in the understanding of the chemical process under consideration the writing style in this volume remains informal but more technical than in principles and applications it starts with chapter 11 whichsummarizes the thermodynamic relationships developed in this earlier volume for those who want or need more detail references are given tothe sections in principles and applications where one could go to learn more about the development limitations and conditions where these equations apply this is the only place where advanced applications ties back to the previous volume chapter 11 can serve as a review of the fundamental thermodynamic equations that are necessary for the more sophisticated applications described in the remainder of this book this may be all that is necessary for the practicing scientist who has been away from the field for some time and needs some review the remainder of this book applies thermodynamics to the description of a variety of problems the topics covered are those that are probably of the most fundamental and broadest interest throughout the book examples of real systems are used as much as possible this is in contrast to many books where generic examples are used almost exclusively a complete set of references to all sources of data and to supplementary reading sources is included problems are given at the end of each chapter this makes the book ideally suited for use as a textbook in an advanced topics course in chemical thermodynamics an excellent review of thermodynamic principles and mathematical relationships along with references to the relevant sections in principles and applications where these equations are developed applications of thermodynamics in a wide variety of chemical processes including phase equilibria chemical equilibrium properties of mixtures and surface chemistry case study approach to demonstrate the application of thermodynamics to biochemical geochemical and industrial processes applications at the cutting edge of thermodynamics examples and problems to assist in learning includes a complete set of references to all literature sources

this book develops the theory of chemical thermodynamics from first principles demonstrates its relevance across scientific and engineering disciplines and shows how thermodynamics can be used as a practical tool for understanding natural phenomena and developing and improving technologies and products concepts such as internal energy enthalpy entropy and gibbs energy are explained using ideas and experiences familiar to students and realistic examples are given so the usefulness and pervasiveness of thermodynamics becomes apparent the worked examples illustrate key ideas and demonstrate important types of calculations and the problems at the end of chapters are designed to reinforce important concepts and show the broad range of applications most can be solved using digitized data from open access databases and a spreadsheet answers are provided for the numerical problems a particular theme of the book is the calculation of the equilibrium composition of systems both reactive and non reactive and this includes the principles of gibbs energy minimization the overall approach leads to the intelligent use of thermodynamic software packages but while these are discussed and their use demonstrated they are not the focus of the book the aim being to provide the necessary foundations another unique aspect is the inclusion of three applications chapters heat and energy aspects of processing the thermodynamics of metal production and recycling and applications of electrochemistry this book is aimed primarily at students of chemistry chemical engineering applied science materials science and metallurgy though it will be also useful for students undertaking courses in geology and environmental science a solutions manual is available for instructors

a revised edition of the well received thermodynamics text this work retains the thorough coverage and excellent organization that made the first edition so popular now incorporates industrially relevant microcomputer programs with which readers can perform sophisticated thermodynamic calculations including calculations of the type they will encounter in the lab and in industry also provides a unified treatment of phase equilibria emphasis is on analysis and prediction of liquid liquid and vapor liquid equilibria solubility of gases and solids in liquids solubility of liquids and solids in gases and supercritical fluids freezing point depressions and osmotic equilibria as well as traditional vapor liquid and chemical reaction equilibria contains many new illustrations and exercises

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