

Enthalpy Of Dissolution Formula

Physical Chemistry For JEE (Main & Advanced) Chemical Thermodynamics of Nickel Chemical Kinetics CRC Handbook of Chemistry and Physics Russian Metallurgy Fundamental Concepts and Computations in Chemical Engineering Handbook of Inorganic Compounds Moscow University Chemistry Bulletin Journal of General Chemistry of the USSR in English Translation Polyhedron Geochemistry International Russian Journal of Applied Chemistry Polymer Science High Temperature Coatings Properties of Aqueous Solutions of Electrolytes Thermochemical Data of Organic Compounds Lithium Chemistry Thermochemistry of Alloys Water-resources Investigations Report Biological Wastewater Treatment Processes Chemical Thermodynamics of Zirconium User's Guide to PHREEQC Problems in Metallurgical Thermodynamics and Kinetics Metals Abstracts Russian Journal of Physical Chemistry Cellulose Modern Experiments for Introductory College Chemistry Calorimetry and Thermal Methods in Catalysis Phosphoric Acid Industry Russian Journal of General Chemistry Introduction to Supercritical Fluids Russian Journal of Inorganic Chemistry Advanced Thermodynamics for Engineers Hydrogen Storage Materials Measurement of the Thermodynamic Properties of Single Phases Thermodynamics and Chemistry \Problems in Physical Chemistry Quantities, Units and Symbols in Physical Chemistry Chemistry Szycher's Handbook of Polyurethanes, Second Edition

Physical Chemistry For JEE (Main & Advanced)

Chemical Thermodynamics of Nickel

This volume is part of the series on "Chemical Thermodynamics", published under the aegis of the OECD Nuclear Energy Agency. It contains a critical review of the literature on thermodynamic data for inorganic compounds of zirconium. A review team, composed of five internationally recognized experts, has critically reviewed all the scientific literature containing chemical thermodynamic information for the above mentioned systems. The results of this critical review carried out following the Guidelines of the OECD NEA Thermochemical Database Project have been documented in the present volume, which contains tables of selected values for formation and reaction thermodynamical properties and an extensive bibliography.

- * Critical review of all literature on chemical thermodynamics for compounds and complexes of Zr.
- * Tables of recommended Selected Values for thermochemical properties
- * Documented review procedure
- * Exhaustive bibliography
- * Intended to meet requirements of radioactive waste management community
- * Valuable reference source for the physical, analytical and environmental chemist.

Chemical Kinetics

Phosphoric acid is an important industrial acid that is utilized for manufacturing phosphatic fertilizers and industrial products, for pickling and posterior treatment of steel surfaces to prevent corrosion, for ensuring appropriate paint adhesion, and for the food and beverages industry, e.g., cola-type drinks to impart taste and slight acidity and to avoid iron sedimentation. This industry is spread out in countries of four continents - Asia, Africa, America, and Europe - which operate mines and production plants and produce fertilizers. Phosacid is one of the most widely known acids. The global phosacid market and its many phosphate derivatives are expanding worldwide; this trend is expected to continue in the next years, thus producing innovative products.

CRC Handbook of Chemistry and Physics

Russian Metallurgy

Problems in Metallurgical Thermodynamics and Kinetics provides an illustration of the calculations encountered in the study of metallurgical thermodynamics and kinetics, focusing on theoretical concepts and practical applications. The chapters

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of this book provide comprehensive account of the theories, including basic and applied numerical examples with solutions. Unsolved numerical examples drawn from a wide range of metallurgical processes are also provided at the end of each chapter. The topics discussed include the three laws of thermodynamics; Clausius-Clapeyron equation; fugacity, activity, and equilibrium constant; thermodynamics of electrochemical cells; and kinetics. This book is beneficial to undergraduate and postgraduate students in universities, polytechnics, and technical colleges.

Fundamental Concepts and Computations in Chemical Engineering

Handbook of Inorganic Compounds

Moscow University Chemistry Bulletin

The book is about calorimetry and thermal analysis methods, alone or linked to other techniques, as applied to the characterization of catalysts, supports and adsorbents, and to the study of catalytic reactions in various domains: air and wastewater treatment, clean and renewable energies, refining of hydrocarbons,

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green chemistry, hydrogen production and storage. The book is intended to fill the gap between the basic thermodynamic and kinetics concepts acquired by students during their academic formation, and the use of experimental techniques such as thermal analysis and calorimetry to answer practical questions. Moreover, it supplies insights into the various thermal and calorimetric methods which can be employed in studies aimed at characterizing the physico-chemical properties of solid adsorbents, supports and catalysts, and the processes related to the adsorption desorption phenomena of the reactants and/or products of catalytic reactions. The book also covers the basic concepts for physico-chemical comprehension of the relevant phenomena. Thermodynamic and kinetic aspects of the catalytic reactions can be fruitfully investigated by means of thermal analysis and calorimetric methods, in order to better understand the sequence of the elemental steps in the catalysed reaction. So the fundamental theory behind the various thermal analysis and calorimetric techniques and methods also are illustrated.

Journal of General Chemistry of the USSR in English Translation

An up-to-date, comprehensive guide to LITHIUM CHEMISTRY Although lithium has been the subject of numerous individual studies, this intriguing element has rarely been examined from the broad perspective many researchers require. Lithium Chemistry: A Theoretical and Experimental Overview fills this void by providing the

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most thorough and up-to-date overview available of current theories and experimental data. Supported by nearly two hundred illustrations, this book draws upon the expertise of prominent researchers in the field, and treats the full range of modern applications and techniques. The result is a unique and invaluable guide to lithium studies for researchers and graduate students working in the fields of organic, inorganic, and organo-metallic chemistry. *Lithium Chemistry: A Theoretical and Experimental Overview* assumes a background in quantum chemistry and experimental physical chemistry at the graduate level and includes coverage of these major topics: * Bonding, structures, and energies in organolithium compounds * Theoretical studies of aggregates of lithium compounds * Comparison of lithium and hydrogen bonds * Lithium atom matrix reactions with small molecules * NMR of organolithium compounds * Aspects of the thermochemistry of lithium compounds * The structure of lithiated amines and lithiated ethers--from carbanions to carbenoids * Complexes of inorganic lithium salts * Structures of lithium salts of heteroatom compounds * Synthetic ionophores for lithium ions

Polyhedron

Packed with the information, examples, and problems you need to learn to "think like a chemist," CHEMISTRY: AN ATOMS FIRST APPROACH is designed to help you become an independent problem-solver. The text begins with coverage of the

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atom and proceeds through the concept of molecules, structure, and bonding. This approach, different from your high school course, will help you become a good critical thinker and a strong problem-solver -- skills that will be useful to you in any career.

Geochemistry International

Russian Journal of Applied Chemistry

Polymer Science

This text provides an introduction to supercritical fluids with easy-to-use Excel spreadsheets suitable for both specialized-discipline (chemistry or chemical engineering student) and mixed-discipline (engineering/economic student) classes. Each chapter contains worked examples, tip boxes and end-of-the-chapter problems and projects. Part I covers web-based chemical information resources, applications and simplified theory presented in a way that allows students of all disciplines to delve into the properties of supercritical fluids and to design energy, extraction and materials formation systems for real-world processes that use

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supercritical water or supercritical carbon dioxide. Part II takes a practical approach and addresses the thermodynamic framework, equations of state, fluid phase equilibria, heat and mass transfer, chemical equilibria and reaction kinetics of supercritical fluids. Spreadsheets are arranged as Visual Basic for Applications (VBA) functions and macros that are completely (source code) accessible for students who have interest in developing their own programs. Programming is not required to solve problems or to complete projects in the text. Property worksheets/spreadsheets that are easy to use in learning environments Worked examples with Excel VBA Worksheet functions allow users to design their own processes Fluid phase equilibria and chemical equilibria worksheets allow users to change conditions, study new solutes, co-solvents, chemical systems or reactions

High Temperature Coatings

Properties of Aqueous Solutions of Electrolytes

Thermochemical Data of Organic Compounds

The thermochemistry of alloys has interested generations of scientists and the

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subject was treated in classical textbooks long ago, e.g. by Hume-Rothery, by Wagner, and by Kubaschewski and Alcock. Nevertheless, the appearance of new materials and the desire to improve traditional materials and metallurgical processes has kept up demand for more information on the thermodynamics of these systems. The advent of computing power has created new opportunities to tie various aspects and properties together, such as phase diagrams and thermodynamic functions, that are in principle thermodynamically inter related but were too cumbersome to work out before. The computer has also been a powerful tool in building and testing models that help to explain the underlying causes of non-ideal behavior. At the same time, these calculations have pinpointed areas, where additional and more accurate data are needed. In the laboratory, new methods, improved materials, and sophisticated instrumentation have gradually changed the way in which experiments are done. Within the time span of perhaps thirty years, the development went from jotting down individual readings of data points to strip chart recording to automatic digital data acquisition. Scholars and students active in the field of "Thermochemistry of Alloys" convened for a NATO Advanced Study Institute at Kiel in August 1987 to discuss these developments. This book collects most of the lectures and seminar papers given at the Institute.

Lithium Chemistry

A practical handbook rather than merely a chemistry reference, Szycher's

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Handbook of Polyurethanes, Second Edition offers an easy-to-follow compilation of crucial new information on polyurethane technology, which is irreplaceable in a wide range of applications. This new edition of a bestseller is an invaluable reference for technologists, marketers, suppliers, and academicians who require cutting-edge, commercially valuable data on the most advanced uses for polyurethane, one of the most important and complex specialty polymers. Internationally recognized expert Dr. Michael Szycher updates his bestselling industry "bible" With seven entirely new chapters and five that are revised and updated, this book summarizes vital contents from U.S. patent literature—one of the most comprehensive sources of up-to-date technical information. These patents illustrate the most useful technology discovered by corporations, universities, and independent inventors. Because of the wealth of information they contain, this handbook features many full-text patents, which are carefully selected to best illustrate the complex principles involved in polyurethane chemistry and technology. Features of this landmark reference include: Hundreds of practical formulations Discussion of the polyurethane history, key terms, and commercial importance An in-depth survey of patent literature Useful stoichiometric calculations The latest "green" chemistry applications A complete assessment of medical-grade polyurethane technology Not biased toward any one supplier's expertise, this special reference uses a simplified language and layout and provides extensive study questions after each chapter. It presents rich technical and historical descriptions of all major polyurethanes and updated

sections on medical and biological applications. These features help readers better understand developmental, chemical, application, and commercial aspects of the subject.

Thermochemistry of Alloys

Water-resources Investigations Report

Biological Wastewater Treatment Processes

The focus of the book is on how to use mass and heat balances to simulate and design biological wastewater treatment processes. All the main processes for biological wastewater treatment are covered viz. activated sludge processes for carbon and nitrogen removal, anaerobic digestion, sequencing batch reactors, and attached growth processes.

Chemical Thermodynamics of Zirconium

User's Guide to PHREEQC

Proudly serving the scientific community for over a century, this 97th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science. The 97th edition of the Handbook includes 20 new or updated tables along with other updates and expansions. It is now also available as an eBook. This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach.

Problems in Metallurgical Thermodynamics and Kinetics

The Handbook of Inorganic Compounds consists of basic chemistry data for more than 3000 selected gases, liquids, and solid compounds. The compounds are listed alphabetically and indexes located at the back of the book provide the CAS Registry number, molecular formula, and name/synonym. The format for presenting information has both numerical data and descriptive information. The

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data include: Molecular weight Melting and boiling points Solubility Density Viscosity Hardness Vapor pressure Reactivity Thermal conductivity Thermal expansion coefficient Lattice parameters Electrical resistivity Poisson's ratio Dielectric constant The material in this work includes the mainly the chemical elements, binary compounds of the elements with anions such as sulfate and chloride, and metal salts of some simple organic acids. If a compound has more than one form, then each form may be listed individually. If you need: property data for compounds, CAS RN numbers for computer or other searches, a consistent tabulation of molecular weights, to synthesize inorganic materials on a laboratory scale, information on commercial and other uses for many compounds then the Handbook of Inorganic Compounds is the perfect reference to have on your shelf.

Metals Abstracts

Russian Journal of Physical Chemistry

Materials Science Forum Vol. 31

Cellulose

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Properties of Aqueous Solutions of Electrolytes is a handbook that systematizes the information on physico-chemical parameters of multicomponent aqueous electrolyte solutions. This important data collection will be invaluable for developing new methods for more efficient chemical technologies, choosing optimal solutions for more effective methods of using raw materials and energy resources, and other such activities. This edition, the first available in English, has been substantially revised and augmented. Many new tables have been added because of a significantly larger list of electrolytes and their properties (electrical conductivity, boiling and freezing points, pressure of saturated vapors, activity and diffusion coefficients). The book is divided into two sections. The first section provides tables that list the properties of binary aqueous solutions of electrolytes, while the second section deals with the methods for calculating their properties in multicomponent systems. All values are given in PSI units or fractional and multiple units. Metrological characteristics of the experimental methods used for the determination of physico-chemical parameters are indicated as a relative error and those of the computational methods as a relative error or a root-mean square deviation.

Modern Experiments for Introductory College Chemistry

Vols. for 1964-v. 2, no. 1, 1965 include selected articles translated from geochemical papers from other languages, but primarily from Russian, German,

French and Japanese.

Calorimetry and Thermal Methods in Catalysis

The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'. Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title Quantities, Units and Symbols in Physical Chemistry. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

Phosphoric Acid Industry

Although the basic theories of thermodynamics are adequately covered by a number of existing texts, there is little literature that addresses more advanced topics. In this comprehensive work the author redresses this balance, drawing on his twenty-five years of experience of teaching thermodynamics at undergraduate and postgraduate level, to produce a definitive text to cover thoroughly, advanced syllabuses. The book introduces the basic concepts which apply over the whole range of new technologies, considering: a new approach to cycles, enabling their irreversibility to be taken into account; a detailed study of combustion to show how the chemical energy in a fuel is converted into thermal energy and emissions; an analysis of fuel cells to give an understanding of the direct conversion of chemical energy to electrical power; a detailed study of property relationships to enable more sophisticated analyses to be made of both high and low temperature plant and irreversible thermodynamics, whose principles might hold a key to new ways of efficiently covering energy to power (e.g. solar energy, fuel cells). Worked examples are included in most of the chapters, followed by exercises with solutions. By developing thermodynamics from an explicitly equilibrium perspective, showing how all systems attempt to reach a state of equilibrium, and the effects of these systems when they cannot, the result is an unparalleled insight into the more advanced considerations when converting any form of energy into power, that will prove invaluable to students and professional engineers of all

disciplines.

Russian Journal of General Chemistry

Our Distance Learning Program is for students who are preparing for competitive entrance exams such as JEE-Main / JEE-Advanced / NEET / AIIMS / JIPMER / KVPY / NTSE / OLYMPIAD / IMO / RMO / IJSO etc. Study material made by experienced faculty on the latest updated patterns, We updates our study material on time to time, which is suitable for all competitive entrance examinations. Study material contain complete necessary theory, solved examples, practice exercises along with board syllabus (CBSE / State Board and other boards) on the basis of latest patterns of entrance exams and board patterns. We also provide All India Test Series, DPPs (Daily Problem Practice Papers) and Question Bank for JEE -Main / JEE-Advanced / NEET / AIIMS / JIPMER / KVPY / NTSE / OLYMPIAD / IMO / RMO / IJSO. Study material available from Class-6th to Class-12th (Physics, Chemistry, Mathematics, Biology, Science, Mental Ability) Note: Number of pages and front cover images can be changed according to the requirement needs because its update on time to time. One subject can have one, two or more modules (booklet) e.g. Class-11 Chemistry book contain three modules Module-1 (Physical Chemistry), Module-2 (Organic chemistry), Module-3 (Inorganic Chemistry).

Introduction to Supercritical Fluids

Chemical Kinetics bridges the gap between beginner and specialist with a path that leads the reader from the phenomenological approach to the rates of chemical reactions to the state-of-the-art calculation of the rate constants of the most prevalent reactions: atom transfers, catalysis, proton transfers, substitution reactions, energy transfers and electron transfers. For the beginner provides the basics: the simplest concepts, the fundamental experiments, and the underlying theories. For the specialist shows where sophisticated experimental and theoretical methods combine to offer a panorama of time-dependent molecular phenomena connected by a new rational. Chemical Kinetics goes far beyond the qualitative description: with the guidance of theory, the path becomes a reaction path that can actually be inspected and calculated. But Chemical Kinetics is more about structure and reactivity than numbers and calculations. A great emphasis in the clarity of the concepts is achieved by illustrating all the theories and mechanisms with recent examples, some of them described with sufficient detail and simplicity to be used in general chemistry and lab courses. * Looking at atoms and molecules, and how molecular structures change with time. * Providing practical examples and detailed theoretical calculations * Of special interest to Industrial Chemistry and Biochemistry

Russian Journal of Inorganic Chemistry

The Breakthrough Introduction to Chemical Engineering for Today's Students Fundamental Concepts and Computations in Chemical Engineering is well designed for today's chemical engineering students, offering lucid and logically arranged text that brings together the fundamental knowledge students need to gain confidence and to jumpstart future success. Dr. Vivek Utgikar illuminates the day-to-day roles of chemical engineers in their companies and in the global economy. He clearly explains what students need to learn and why they need to learn it, and presents practical computational exercises that prepare beginning students for more advanced study. Utgikar combines straightforward discussions of essential topics with challenging topics to intrigue more well-prepared students. Drawing on extensive experience teaching beginners, he introduces each new topic in simple, relatable language, and supports them with meaningful example calculations in Microsoft Excel and Mathcad. Throughout, Utgikar presents practical methods for effective problem solving, and explains how to set up and use computation tools to get accurate answers. Designed specifically for students entering chemical engineering programs, this text also serves as a handy, quick reference to the basics for more advanced students, and an up-to-date source of valuable information for educators and professionals. Coverage includes Where chemical engineering fits in the engineering field and overall economy Modern chemical engineering and allied industries and their largest firms How typical chemical

engineering job functions build on what undergraduates learn The importance of computations, and the use of modern computational tools How to classify problems based on their mathematical nature Fundamental fluid flow phenomena and computational problems in practical systems Basic principles and computations of material and energy balance Fundamental principles and calculations of thermodynamics and kinetics in chemical engineering How chemical engineering systems and problems integrate and interrelate in the real world Review of commercial process simulation software for complex, large-scale computation

Advanced Thermodynamics for Engineers

High Temperature Coatings, Second Edition, demonstrates how to counteract the thermal effects of rapid corrosion and degradation of exposed materials and equipment that can occur under high operating temperatures. This is the first true practical guide on the use of thermally protective coatings for high-temperature applications, including the latest developments in materials used for protective coatings. It covers the make-up and behavior of such materials under thermal stress and the methods used for applying them to specific types of substrates, as well as invaluable advice on inspection and repair of existing thermal coatings. With his long experience in the aerospace gas turbine industry, the author has compiled the very latest in coating materials and coating technologies, as well as hard-to-find guidance on maintaining and repairing thermal coatings, including

appropriate inspection protocols. The book is supplemented with the latest reference information and additional support to help readers find more application- and industry-type coatings specifications and uses. Offers an overview of the underlying fundamental concepts of thermally-protective coatings, including thermodynamics, energy kinetics, crystallography and equilibrium phases Covers essential chemistry and physics of underlying substrates, including steels, nickel-iron alloys, nickel-cobalt alloys and titanium alloys Provides detailed guidance on a wide variety of coating types, including those used against high temperature corrosion and oxidative degradation and thermal barrier coatings

Hydrogen Storage Materials

In order to quantitatively predict the chemical reactions that hazardous materials may undergo in the environment, it is necessary to know the relative stabilities of the compounds and complexes that may be found under certain conditions. This type of calculations may be done using consistent chemical thermodynamic data, such as those contained in this book for inorganic compounds and complexes of nickel. * Fully detailed authoritative critical review of literature. * Integrated into a comprehensive and consistent database for waste management applications. * CD ROM version.

Measurement of the Thermodynamic Properties of Single Phases

Cellulose is destined to play a major role in the emerging bioeconomy. Awareness of the environment and a depletion of fossil fuels are some of the driving forces for looking at forest biomaterials for an alternative source of energy, chemicals and materials. The importance of cellulose is widely recognized world-wide and as such the field of cellulose science is expanding exponentially. Cellulose, the most abundant biopolymer on earth, has unique properties which makes it an ideal starting point for transforming it into useful materials. To achieve this, a solid knowledge of cellulose is essential. As such this book on cellulose, the first in a series of three, is very timely. It deals with fundamental aspect of cellulose, giving the reader a good appreciation of the richness of cellulose properties. Book Cellulose - Fundamental Aspects is a good introduction to books Cellulose - Medical, Pharmaceutical and Electronic Applications and Cellulose - Biomass Conversion , in which applications of cellulose and its conversion to other materials are treated.

**Thermodynamics and Chemistry **

The purpose of the material in this book is to enable users of thermochemical data

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to predict values for standard enthalpies of reactions involving organic compounds ranging in complexity from simple alkanes to biologically important compounds such as amino acids. Chapter 1 contains tables of values for standard enthalpies of formation derived from experimental data for approximately 3000 organic compounds of the elements C, H, O, N, S and halogens; Chapters 2 to 4 describe a simple scheme for predicting unknown values of standard enthalpies of formation. Data presented in the book are stored in a data base at the University of Sussex and with associated software provides a simple but efficient method for dealing with thermochemical problems in organic chemistry. The experimental data used in the computer calculation of the values for standard enthalpies of formation are clearly indicated in Table 1.2. Where alternative values for a given standard enthalpy of formation may be derived, from independent measurements, we have clearly indicated those which are regarded by the assessors as definitive and which are therefore used to derive the value for the compound concerned. We do not, however, give reasons for the assessors choice nor are details given of experimental techniques. The literature search for suitable references was discontinued in 1983 to allow development of the predictive scheme and the computer techniques for handling the data.

Problems in Physical Chemistry

Quantities, Units and Symbols in Physical Chemistry

Chemistry

Szycher's Handbook of Polyurethanes, Second Edition

This title is a revision of Experimental Thermodynamics Volume II, published in 1975, reflecting the significant technological developments and new methods introduced into the study of measurement of thermodynamic quantities. The editors of this volume were assigned the task of assembling an international team of distinguished experimentalists, to describe the current state of development of the techniques of measurement of the thermodynamic quantities of single phases. The resulting volume admirably fulfils this brief and contains a valuable summary of a large variety of experimental techniques applicable over a wide range of thermodynamic states with an emphasis on the precision and accuracy of the results obtained. Those interested in the art of measurements, and in particular engaged in the measurement of thermodynamic properties, will find this material invaluable for the guidance it provides towards the development of new and more accurate techniques. · Provides detailed descriptions of experimental chemical

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thermodynamic methods · Strong practical bias and includes both detailed working equations and figures for the experimental methods · Most comprehensive text in this field since the publication of Experimental Thermodynamics II

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