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NIST-JANAF Thermochemical Tables-Malcolm W. Jr. Chase 1998-08-01
Journal of Research of the National Institute of Standards and Technology- 1999
The Production and Processing of Inorganic Materials-James Evans 2016-12-06 Guiding readers from the significance, history, and sources of materials to advanced materials and processes, this textbook looks at the production and primary processing of inorganic materials, such as ceramics, metals, silicon, and some composite materials. The text encourages instructors to teach the production of all types of inorganic materials as one. While recognizing the differences between producing various types of materials, the authors focus on the commonality of thermodynamics, kinetics, transport phenomena, phase equilibria and transformation, process engineering, and surface chemistry to all inorganic materials. The text focuses on fundamentals and how fundamentals can be applied to understand how the major inorganic materials are produced and the initial stages of their processing. Understanding of these fundamentals will equip students for engineering future processes for producing materials or for studying the processing of the many less common materials not examined in this text. The text is intended for use in an undergraduate course at the junior or senior level, but will also serve as a useful introductory and reference work for graduate students and practicing scientists and engineers.
Structural and Chemical Characterization of Metals, Alloys and Compounds II-Ramiro Pérez Campos 2014-05-28 The XXII International Materials Research Congress (IMRC) was held in Cancun Mexico from 11 to 15 August 2013. It was organized by the Sociedad Mexicana de Materiales (SMM) and the Materials Research Society (MRS). The IMRC 2013 included 5 plenary lectures, 1 science luncheon, 287 invited talks, and 1851 oral and poster presentations distributed in 30 different symposia, in addition, 6 tutorial courses were presented. About 1600 specialized scientists from more than 40 countries participated during the congress. The aim of the IMRC is provide an interactive forum to discuss and exchange ideas about the advances in synthesis, characterization, properties, processing, applications, basic research trends, corrosion prevention, and more, all related to the area of materials science and engineering. This event provides an excellent opportunity for materials scientists around the world to have a space to exchange their ideas and to discuss their results.
Combustion-Irvin Glassman 2014-12-02 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

Proceedings of the ... Spring Technical Conference of the ASME Internal Combustion Engine Division-American Society of Mechanical Engineers. Internal Combustion Engine Division. Spring Technical Conference 2002

Sulfide Mineralogy and Geochemistry-David J. Vaughan 2006 Volume 61 of Reviews in Mineralogy and Geochemistry presents an up-to-date review of sulfide mineralogy and geochemistry. The crystal structures, electrical and magnetic properties, spectroscopic studies, chemical bonding, thermochemistry, phase relations, solution chemistry, surface structure and chemistry, hydrothermal precipitation processes, sulfur isotope geochemistry and geobiology of metal sulfides are reviewed. Where it is appropriate for comparison, there is brief discussion of the selenide or telluride analogs of the metal sulfides. When discussing crystal structures and structural relationships, the sulfosalt minerals as well as the sulfides are considered in some detail.

Schaums Outline of Thermodynamics for Engineers, Fourth Edition-Merle Potter 2019-10-22 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there’s Schaum’s. More than 40 million students have trusted Schaum’s to help them succeed in the classroom and on exams. Schaum’s is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. Schaum’s Outline of Thermodynamics for Engineers, Fourth Edition is packed with four sample tests for the engineering qualifying exam, hundreds of examples, solved problems, and practice exercises to test your skills. This updated guide approaches the subject in a more concise, ordered manner than most standard texts, which are often filled with extraneous material. Schaum’s Outline of Thermodynamics for Engineers, Fourth Edition features: •889 fully-solved problems •4 sample tests for the engineering qualifying exam•An accessible review of thermodynamics•Chapter on refrigeration cycles•Nomenclature reflecting current usage•Support for all the major leading textbooks in thermodynamics•Content that is appropriate for Thermodynamics, Engineering Thermodynamics, Principles of Thermodynamics, Fundamentals of Thermodynamics, and Thermodynamics I & II courses PLUS: Access to the revised Schaums.com website and new app, containing 20 problem-solving videos, and more. Schaum’s reinforces the main concepts required in your course and offers hundreds of practice exercises to help you succeed. Use Schaum’s to shorten your study time--and get your best test scores! Schaum’s Outlines – Problem solved.

Handbook of Chemical Engineering Calculations, Fourth Edition-Tyler Hicks 2012-07-10 Solve chemical engineering problems quickly and accurately Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems that often arise in chemical engineering practice. New calculations reflect the latest green technologies and environmental engineering standards. Featuring contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Coverage includes: Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering

Handbook of Chemical Engineering Calculations, Fourth Edition-Tyler G. Hicks 2012-07-30 Solve chemical engineering problems quickly and accurately Fully revised throughout with new procedures, Handbook of Chemical Engineering Calculations, Fourth Edition shows how to solve the main process-related problems

that often arise in chemical engineering practice. New calculations reflect the latest green technologies and environmental engineering standards. Featuring contributions from global experts, this comprehensive guide is packed with worked-out numerical procedures. Practical techniques help you to solve problems manually or by using computer-based methods. By following the calculations presented in this book, you will be able to achieve accurate results with minimal time and effort. Coverage includes: Physical and chemical properties Stoichiometry Phase equilibrium Chemical reaction equilibrium Reaction kinetics, reactor design, and system thermodynamics Flow of fluids and solids Heat transfer Distillation Extraction and leaching Crystallization Absorption and stripping Liquid agitation Size reduction Filtration Air pollution control Water pollution control Biotechnology Cost engineering

Electrochemical Methods: Fundamentals and Applications, 2nd Edition-Allen J. Bard 2000-12-04 A broad and comprehensive survey of the fundamentals for electrochemical methods now in widespread use. This book is meant as a textbook, and can also be used for self-study as well as for courses at the senior undergraduate and beginning graduate levels. Knowledge of physical chemistry is assumed, but the discussions start at an elementary level and develop upward. This revision comes twenty years after publication of the first edition, and provides valuable new and updated coverage.

The CRC Handbook of Mechanical Engineering, Second Edition- 1998-03-24 During the past 20 years, the field of mechanical engineering has undergone enormous changes. These changes have been driven by many factors, including: the development of computer technology worldwide competition in industry improvements in the flow of information satellite communication real time monitoring increased energy efficiency robotics automatic control increased sensitivity to environmental impacts of human activities advances in design and manufacturing methods These developments have put more stress on mechanical engineering education, making it increasingly difficult to cover all the topics that a professional engineer will need in his or her career. As a result of these developments, there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering. The CRC Handbook of Mechanical Engineering serves the needs of the professional engineer as a resource of information into the next century.

JANAF Thermochemical Tables-Dow Chemical Company. Thermal Research Laboratory 1969

The Chemistry of Organic Silicon Compounds-Saul Patai 1989

Diamond and Related Materials Research-Shôta Shimizu 2008 This book presents the latest research from around the world on diamond materials as well as related materials. These include cubic boron nitride and materials with characteristics and properties approaching or possibly exceeding those of diamond.

Silicon Materials-Processing, Characterization and Reliability: Volume 716-Janice L. Veteran 2002-10-11 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners.

Oxygen in the Solar System-Glenn J. MacPherson 2008 Volume 68 of Reviews in Mineralogy and Geochemistry reviews Oxygen in the Solar System, an element that is so critically important in so many ways to planetary science. The book is based on three open workshops:Oxygen in the Terrestrial Planets, held in Santa Fe, NM July 20-23, 2004;Oxygen in Asteroids and Meteorites, held in Flagstaff, AZ June 2-3, 2005;and Oxygen in Earliest Solar System Materials and Processes (and including the outer planets and comets), held in Gatlinburg, TN September 19-22, 2005. As a consequence of the cross-cutting approach, the final book spans a wide range of fields relating to oxygen, from the stellar nucleosynthesis of oxygen, to its occurrence in the interstellar medium, to the oxidation and isotopic record preserved in 4.56 Ga grains formed at the Solar System's birth, to its abundance and speciation in planets large and small, to its role in the petrologic and physical evolution of the terrestrial planets. Contents:IntroductionOxygen isotopes in the early Solar System - A historical perspectiveAbundance, notation, and fractionation of light stable isotopesNucleosynthesis and chemical evolution of oxygenOxygen in the interstellar mediumOxygen in the SunRedox conditions in the solar nebula: observational, experimental, and theoretical constraintsOxygen isotopes of chondritic componentsMass-independent oxygen isotope variation in the solar nebulaOxygen and other volatiles in the giant planets and their satellitesOxygen in comets and interplanetary dust particlesOxygen and asteroidsOxygen isotopes in asteroidal materialsOxygen isotopic composition and chemical correlations in meteorites and the terrestrial planetsRecord of low-temperature alteration in asteroidsThe oxygen cycle of the terrestrial planets: insights into the processing and history of oxygen in surface environmentsRedox conditions on small bodies, the Moon and MarsTerrestrial oxygen isotope variations and their implications for planetary lithospheresBasalts as probes of planetary interior redox stateRheological consequences of redox state

Proceedings of the Second SIAM International Conference on Data Mining-Society for Industrial and

Applied Mathematics 2002 This text constitutes the proceedings of the Second SIAM International Conference on Data Mining. Topics covered within include mining large data sets; casualty rules and data learning; support vector machines and neural networks; and mining sequential and structured patterns.
Shock Compression of Condensed Matter - 2007-Mark Elert 2007-12-10 This volume embodies the most recent research on shock compression of condensed matter, and includes 335 plenary, invited and contributed papers on topics including equation of state, phase transitions, chemical reactions, and warm dense matter. Also covered are subject such as fracture, geophysics and planetary science, and energetic materials, among others. All papers are peer-reviewed, and recent developments in the field of shock compression of condensed matter are covered.
Science-John Michels 2007-07
Proceedings of the ASME Turbo Expo ...- 2002
Fundamentals of Metallurgical Processing-J. M. Toguri 2000
The Enthalpy of Formation and Quadrupole Moments of Acetylene and Doubly Substituted Acetylenes and Acetylides, Intermolecular Interactions, and Collision-induced Molecular Frame Distortions-Dorothy J. Gearhart 2006
Proceedings of the ASME Turbo Expo 2002- 2002 Annotation Volumes 2A and 2B of the five-volume set comprising the proceedings of the June 2002 conference contain approximately 135 contributions discussing all types of gas engines, in particular, their controls, diagnostics, and instrumentation; cycle innovations; marine engines; and oil and gas applications. A sampling of topics: automated fault diagnosis for small gas turbine engines; noise reduction from engine tests at airports; comparison of blade cooling performance using alternative fluids; and limits and trade-off in the control of compressor surge. There is no subject index. Annotation c. Book News, Inc., Portland, OR (booknews.com).
Journal of the Chinese Chemical Society ...-Chinese Chemical Society 2005
Thermodynamics of Iron and Aluminum Oxides-Juraj Majzlan 2002
Proceedings of the ... International Joint Power Generation Conference- 2001
Thermodynamic Analysis of Microbial Metabolism in Hydrothermal Systems-Douglas Edward LaRowe 2005
Stellar Atmosphere Modeling-Ivan Hubený 2003
Zeitschrift Für Naturforschung- 2002
31st AIAA Plasmadynamics and Lasers Conference- 2000
Actinides 2005--basic Science, Applications and Technology-John L. Sarrao 2006
Metallurgical and Materials Processing: Principles and Technologies (Yazawa International Symposium), Materials Processing Fundamentals and New Technologies-F. Kongoli 2003-01-01 From the TMS 2003 Annual Meeting & Exhibition symposium honoring the life's work of Professor Akira Yazawa, this book, the first in a three-volume collection, discusses recent developments in the physical chemistry of metallurgical processes and physicochemical principles involved in materials processing, with a focus on materials processing fundamentals and new technologies. This volume is part of a three-volume set. You may purchase any volume individual or you may purchase the entire three-volume set in its entirety as listed below: Three-Volume Set : Metallurgical and Materials Processing Principles and Technologies (Yazawa International Symposium) Volume 1: Materials Processing Fundamentals and New Technologies Volume 2: High-Temperature Metal Production Volume 3: Aqueous and Electrochemical Processing A collection of papers from the 2003 TMS Annual Meeting and Exhibition, which was held in San Diego, California, March 2-6, 2003.
The Science of Engineering Ceramics III-Tatsuki Ohji 2006 This book contains more than 200 papers; all dealing with recent research findings related to engineering ceramics and associated materials. Particular emphasis is placed on the consideration of novel technical challenges and innovative technologies in advanced engineering ceramics: including new classes of high-temperature structural ceramics, nanomaterials/nanocomposites, environmental- and energy-related ceramics and so on, which are expected to open up new frontiers for engineering ceramics in the 21st century.
The Synthesis and Characterization of Nitrides and Other Non-oxide Materials-Mark Stuart Bailey 2005 Various collaborative studies were also undertaken; e.g., europium (III) nitride was synthesised and observed to be a semi-metallic Van Vleck paramagnet. The synthesis of magnesium telluride and the high-temperature chemistry of the binary lithium borides was also explored.
Boiler Systems Engineering- 2001
Gas-Phase Combustion Chemistry-W.C., Jr. Gardiner 2012-12-06 Superseding Gardiner's "Combustion Chemistry", this is an updated, comprehensive coverage of those aspects of combustion chemistry relevant

to gas-phase combustion of hydrocarbons. The book includes an extended discussion of air pollutant chemistry and aspects of combustion, and reviews elementary reactions of nitrogen, sulfur and chlorine compounds that are relevant to combustion. Methods of combustion modeling and rate coefficient estimation are presented, as well as access to databases for combustion thermochemistry and modeling.
Quantities, Units and Symbols in Physical Chemistry-E Richard Cohen 2007-10-31 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.
High Temperature Corrosion and Materials Chemistry ...- 2001
Thermodynamic Modeling and Materials Data Engineering-J.-P. Caliste 2012-12-06 J.-P. CALISTE, A. TRUYOL AND J. WESTBROOK The Series, "Data and Knowledge in a Changing World", exemplifies CODATA's primary purpose of collecting, from widely different fields, a wealth of information on efficient exploitation of data for progress in science and technology and making that information available to scientists and engineers. A separate and complementary CODATA Reference Series will present Directories of compiled and evaluated data and Glossaries of data-related terms. The present book "Thermodynamic Modeling and Materials Data Engineering" discusses thermodynamic, structural, systemic and heuristic approaches to the modeling of complex materials behavior in condensed phases, both fluids and solids, in order to evaluate their potential applications. Itwas inspired by the Symposium on "Materials and Structural Properties" held during the 14th International CODATA Conference in Chambery, France. The quality of the contributions to this Symposium motivated us to present" a coherent book of interest to the field. Updated contributions inspired by Symposium discussions and selections from other CODATA workshops concerning material properties data and Computer Aided Design combine to highlight the complexity of material data issues on experimental, theoretical and simulation levels Articles were selected for their pertinence in three areas. Complex data leading to interesting developments and tools such as: • new developments in state equations and their applications, • prediction and validation of physical and energy data by group correlations for pure compounds, • modeling and prediction of mixture properties.

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