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Selected Pyrotechnic Publications of K. L. and B. J. Kosanke, Part 1 - Kenneth L. Kosanke 1995-08
These are a collection of previously published technical papers on a variety of pyrotechnic topics. The articles have been reformatted into a 2-column, 81⁄2x11" format with medium print. Only those articles that continue to be of interest and use to pyrotechnicians have been included.
Numerical data and functional relationships in science and technology - K. H. Hellwege 1961

Organic Chemistry - Marye Anne Fox 2004
Accompanying CD-ROM ... "has been enhanced with updated animated illustrations to accompany the presentations [and] Chem3D files for helpful structure visualization."--Page 4 of cover.
The Official Laboratory Research Notebook - Jones & Bartlett 2013-09-01
The Ideal Laboratory Notebook For Maintaining Accurate, Thorough Notes In Your Research Lab The Official Laboratory Research Notebook Has Been Revised And Updated To Include Information Beneficial For Both Chemistry And Biology Courses. The Notebook Contains 100 Consecutively Numbered, Carbonless Duplicate Pages, Making It Easy For Students To Tear Out And Submit Their Lab Write-Ups While Still Keeping An Official Copy. Each Page Is Three-Hole Punched For Notebook Convenience. The Notebook Contains: •Sargent-Welch’S Periodic Table Of The Elements; •Table On Concentrations Of Reagents; •Table Of Useful Data Manipulations; •New Table Of Densities; •Boiling Points Of Some Common Organic Solvents; And •Acid And Base Dissociation Constants
Surface Analysis Methods in Materials Science - D.J. O'Connor 2013-04-17
The idea for this book stemmed from a remark by Philip Jennings of Murdoch University in a discussion session following a regular meeting of the Australian Surface Science group. He observed that a text on surface analysis and applica tions to materials suitable for final year undergraduate and postgraduate science students was not currently available. Furthermore, the members of the Australian Surface Science group had the research experience and range of coverage of sur face analytical techniques and applications to provide a text for this purpose. A of techniques and applications to be included was agreed at that meeting. The list intended readership of the book has been broadened since the early discussions, particularly to encompass industrial users, but there has been no significant alter ation in content. The editors, in consultation with the contributors, have agreed that the book should be prepared for four major groups of readers: - senior undergraduate

students in chemistry, physics, metallurgy, materials science and materials engineering; - postgraduate students undertaking research that involves the use of analytical techniques; - groups of scientists and engineers attending training courses and workshops on the application of surface analytical techniques in materials science; - industrial scientists and engineers in research and development seeking a description of available surface analytical techniques and guidance on the most appropriate techniques for particular applications. The contributors mostly come from Australia, with the notable exception of Ray Browning from Stanford University.

Nanotechnology for Photovoltaics - Loucas Tsakalakos 2010-03-25

Current concerns regarding greenhouse gas-related environmental effects, energy security, and the rising costs of fossil fuel-based energy has renewed interest in solar energy in general and photovotaics in particular. Exploring state-of-the-art developments from a practical point of view, Nanotechnology for Photovoltaics examines issues in increas

Computational Fluid Dynamics in Industrial Combustion - Charles E. Baukal, Jr. 2000-10-26

Although many books have been written on computational fluid dynamics (CFD) and many written on combustion, most contain very limited coverage of the combination of CFD and industrial combustion. Furthermore, most of these books are written at an advanced academic level, emphasize theory over practice, and provide little help to engineers who need to use CFD for combustion modeling. Computational Fluid Dynamics in Industrial Combustion fills this gap in the literature. Focusing on topics of interest to the practicing engineer, it codifies the many relevant books, papers, and reports written on this combined subject into a single, coherent reference. It looks at each topic from a somewhat narrow perspective to see how that topic affects modeling in industrial combustion. The editor and his team of expert authors address these topics within three main sections: Modeling Techniques-The basics of CFD modeling in combustion Industrial Applications-Specific applications of CFD in the steel, aluminum, glass, gas turbine, and petrochemical industries Advanced Techniques-Subjects rarely addressed in other texts, including design optimization, simulation, and visualization Rapid increases in computing power and significant advances in commercial CFD codes have led to a tremendous increase in the application of CFD to industrial combustion. Thorough and clearly representing the techniques and issues confronted in industry, Computational Fluid Dynamics in Industrial Combustion will help bring you quickly up to date on current methods and gain the ability to set up and solve the various types of problems you will encounter.

Ion Beams for Materials Analysis - R. Curtis Bird 1990-02-05

The use of ion beams for materials analysis involves many different ion-atom interaction processes which previously have largely been considered in separate reviews and texts. A list of books and conference proceedings is given in Table 2. This book is divided into three parts, the first which treats all ion beam techniques and their applications in such diverse fields as materials science, thin film and semiconductor technology, surface science, geology, biology, medicine, environmental science, archaeology and so on.

Review - Oak Ridge National Laboratory 1983

Introduction to Crystal Chemistry - Howard W. Jaffe 1988-09-30

Suitable for undergraduate and graduate student in advanced mineralogy courses.

U.S. Geological Survey Circular - 1996

Frank Schaffer's Chemistry for Everyday - David Thurlo 1999

Students learn about important subjects by relating them to events and things that occur in their everyday lives. A wealth of interesting activities provide a detailed look into each subject. Easy-to-use activities can be completed individually at school or at home, though a few hands-on experiments require group work and data sharing. A great supplement to any existing curriculum Includes topics such as the scientific method applied to chemistry, determining specific gravity, balancing chemical equations, and exploring the periodic table of elements.

Statistical Thermodynamics of Alloys - N.A. Gokcen 2012-12-06

This book is intended for scientists, researchers, and graduate students interested in solutions in general, and solutions of metals in particular. Readers are assumed to have a good background in thermodynamics, presented in such books as those cited at the end of Chapter 1, "Thermo dynamic Background." The contents of the book are limited to the solutions of metals + metals, and metals + metalloids, but the results are also appli cable to numerous other types of solutions encountered by metallurgists, materials scientists, geologists, ceramists, and chemists. Attempts have been made to cover each topic in depth with numerical examples whenever necessary. Chapter 2 presents phase equilibria and phase diagrams as related to the thermodynamics of solutions. The emphasis is on the binary diagrams since the ternary diagrams can be understood in terms of the binary diagrams coupled with the phase rule, and the Gibbs energies of mixing. The cal culation of thermodynamic properties from the phase diagrams is not emphasized because such a procedure generally yields mediocre results. Nevertheless, the reader can readily obtain thermodynamic data from phase diagrams by reversing the detailed process of calculation of phase diagrams from thermodynamic data. Empirical rules on phase stability are given in this chapter for a brief and clear understanding of the physical and atomistic factors underlying the alloy phase formation.

Low-dimensional Nitride Semiconductors - Bernard Gil 2002

Optoelectronics and electronics of the years to come are likely to change dramatically. Most of the outdoor lighting systems will be replaced by light-emitting diodes that operate in the whole visible part of the electromagnatic spectrum. Transistors operating at high frequency and with high power are under development and likely to hit the market very rapidly. Compact solid-state lasers that operate in the near-ultraviolet range are going to be utilized for such widely used applications as read-write tasks in printer and CD drives. Ultraviolet detectors will be used at a wide scale for many application, ranging from flame detectors to medical instruments. This book concerns itself with the questions why nitride semiconductors are so promising over such a wide range of applications, what the current issues are in the research laboratories, and what the prospects of new electronic devices are in the dawn of the twenty-first century.

The Science and Technology of an American Genius -

Tools and Modes of Representation in the Laboratory Sciences - U. Klein 2001-10-31

Fourteen chapters provide insights into the efforts of 19th- and 20th-century scientists to construct working representations of invisible objects, such as the structural formula of a dye, a three- dimensional model of a protein, or a table conveying relationships between chemical elements. The essays focus on scientists' pragmatic use of representation, exploring the concrete ways that scientists implement sign systems as productive tools both to achieve and to shape their organizational goals. Editor Klein is associated with the Max Planck Institute for the History of Science, Berlin. Annotation copyrighted by Book News Inc., Portland, OR.

Semiconductor Surfaces and Interfaces - Winfried Mönch 2013-03-09

This third edition has been thoroughly revised and updated. In particular it now includes an extensive discussion of the band lineup at semiconductor interfaces. The unifying concept is the continuum of interface-induced gap states.

Electron Correlations in Molecules and Solids - Peter Fulde 2012-12-06

This volume bridges the gap between quantum chemistry and solid-state theory. The text develops new concepts for treating many-body and correlation effects, and deals with applications of the theory to molecules, semiconductors, transition metals, heavy-fermion systems, and the new high-Tc superconducting materials.

Solid State Physics - Henry Ehrenreich 2001-09-12

Solid state physics is the branch of physics that is primarily devoted to the study of matter in its solid phase, especially at the atomic level. This prestigious serial presents timely and state-of-the-art reviews pertaining to all aspects of solid state physics.

Bang to Eternity and Betwixt - John Hussey 2014-07-31

Covering the Cosmos from before the Big Bang through to the creation of

our universe and up to but not including our arrival on stage; our will is not yet imposed, we had no hand, act nor part in its provisions, beyond investigating to understand what has been delivered us. The many aspects of the Cosmos are melded, in a headline driven style, to paint a cohesive picture as well as allowing the reader choose to delve further where they may choose to paint their personal picture. Cosmos – includes; • The creation mechanism for our Universe and why there exists a possible Multiverse. • The creation mechanisms of the galaxies with their diversity of Star types. • The space exploration of our Solar System. • The Earth and Moon from their birth to their life driving engines for our planet. • The evolutionary processes that led to our arrival on the planet. • Our natural world with its great events. • Documentary video links on all topics of the book are included. The story is factual in manner, in the proper tradition of reporting, no personal opinions are expressed. The life stories of the standout personalities, in text and video, without whom what is now known, could not have been unraveled, in the case of Cosmos, they are; • Galileo Galilei • Isaac Newton • Albert Einstein • Charles Darwin This is a Video Book, vBook, beyond its text there are 150+ video titles, 100+ viewing hours, downloaded and stored locally on your computer, to be able to watch anytime, offline, without the need for local internet connection. Google 'Cosmos' and you get about 27,800,000 search results, so over these last several years I've searched out the best documentary videos with their hyperlinks included here, blending their content to report cohesively, supplementing, where appropriate, from Wikipedia and also include those hyperlinks for readers wanting to delve further. The 'List of Contents' runs to 6 levels to provide a form of map to the reader as the reporting sequence is not a mere chronology of Cosmic events, it delves, as necessary into the stories as to how the events became understood to us. There is a 7th level, hyperlinked, at its base, which brings further background content, from Wikipedia, to those who choose to read further into any of the topics. The 'Index' allows navigation for the reader who has specific interests to investigate through the fabric of the report. The 'Text' is structured to 4 levels beginning with the primary, headline driven, main body content followed by relevant Wikipedia extracts, indented in purple, for those choosing to read further into a particular topic through to hyperlinked Wikipedia - Full Article text within the book and in turn out to the website itself. For the reader that wants to stay with the big picture, main body content, there is a "Skip" link to take you past each of the extracts, on to the next headline title and main body content. There are 150+ video content links delivering 100+ hours of viewing time, of the best documentary film available online. The main sequence structure is; • Cosmology – Universe & Multiverse • Geology – Earth & Moon • Biology – Life – Plant & Animal • Ecology – Evolution & Environment – Plant, Animal & Human Special Edition There is also a Special Edition of this book available for US$49.95 which streams all video content from a secure Cloud Drive; therefore, video content cannot be removed by third party video platform providers such as YouTube, DailyMotion, Vimeo….. This Standard Edition streams from these. The Cloud Drive Server also allows you conveniently download to your local drive, as much video content as you choose, to watch, offline, at a time that best suits you. To view or purchase, paste the books ASIN: B00LEWY5WW into the Kindle Store search box. If you've any queries, feel welcome to contact bangtoeternityandbetwixt@gmail.com

Magnetic Oxides and Composites II - Rajshree B. Jotania 2020-10-15

Magnetic oxides have highly interesting applications in the fields of permanent magnets, microwave devices, magnetic refrigeration, sensors, catalysis, and the health sector. This book focuses on the synthesis, characterization, and applications of various perovskites, garnets, manganites, carbon-based metal oxide nanocomposites, nanoferrites, and graphene-metal oxide nanocomposites. Keywords: Magnetic Oxides, Permanent Magnets, Microwave Devices, Magnetic Refrigeration, Sensors, Catalysis, Perovskites, Nanoferrites, Manganites, Rare Earth Iron Garnet, Graphene-Metal Oxide Nanocomposites, Carbon Nanomaterials, Mesoporous Materials, Nanocatalysts, Multifunctional Ferrites, Magnetocaloric Effect, Biosynthesis, Photo Catalysis, Antibacterial Activity, High Density Recording Media.

Treatise on Solid State Chemistry - N. Hannay 2012-12-06

The last quarter-century has been marked by the extremely rapid growth of the solid-state sciences. They include what is now the largest subfield of physics, and the materials engineering sciences have likewise flourished. And, playing an active role throughout this vast area of science and engineer ing have been very large numbers of chemists. Yet, even though the role of chemistry in the solid-state sciences has been a vital one and the solid-state sciences have, in turn, made enormous contributions to chemical thought, solid-state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry. Solid-state chemistry is not even well defined as to content. Some, for example, would have it include only the quantum chemistry of solids and would reject thermodynamics and phase equilibria; this is nonsense. Solid-state chemistry has many facets, and one of the purposes of this Treatise is to help define the field. Perhaps the most general characteristic of solid-state chemistry, and one which helps differentiate it from solid-state physics, is its focus on the chemical composition and atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid. Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features.

Coal--a Complex Natural Resource - Stanley P. Schweinfurth 2003

NBS Technical Note - 1977-05

High Performance Computing in Science and Engineering '10 - Wolfgang E. Nagel 2010-12-14

This book presents the state-of-the-art in simulation on supercomputers. Leading researchers present results achieved on systems of the High Performance Computing Center Stuttgart (HLRS) for the year 2010. The reports cover all fields of computational science and engineering, ranging from CFD to computational physics and chemistry to computer science, with a special emphasis on industrially relevant applications. Presenting results for both vector systems and microprocessor-based systems, the book makes it possible to compare the performance levels and usability of various architectures. As HLRS operates the largest NEC SX-8 vector system in the world, this book gives an excellent insight into the potential of vector systems, covering the main methods in high performance computing. Its outstanding results in achieving the highest performance for production codes are of particular interest for both scientists and engineers. The book includes a wealth of color illustrations and tables.

Handbook of Neurotoxicology - Edward J. Massaro 2001-11-12

Neurotoxicology is a broad and burgeoning field of research. Its growth in recent years can be related, in part, to increased interest in and concern with the fact that a growing number of anthropogenic agents with neurotoxic potential, including pesticides, lead, mercury, and the polytypic bypro ducts of combustion and industrial production, continue to be spewed into and accumulate in the environment. In addition, there is great interest in natural products, including toxins, as sources of therapeutic agents. Indeed, it is well known that many natural toxins of broadly differing structure, produced or accumulated for predatory or defensive purposes, and toxic agents, accumulated incidentally by numerous species, function to perturb nervous tissue. Components of some of these toxins have been shown to be useful therapeutic agents and/or research reagents. Unfor tunately, the environmental accumulation of some neurotoxic ants of anthropogenic ori gin, especially pesticides and metals, has resulted in incidents of human poisoning, some of epidemic proportion, and high levels of morbidity and mortality. Furthermore, an increasing incidence of neurobehavioral disorders, some with baffling symptoms, is confronting clinicians. It is not clear whether this is merely the result of increased vigi lance and/or improved diagnostics or a consequence of improved health care. In any case, the role of exposure to environmental and occupational neurotoxic ants in the etiology of these phenomena, as well as neurodegenerative diseases, is coming under increasing scrutiny and investigation.

Critical Evaluation of Data in the Physical Sciences - Stephen A. Rossmassler 1977

Ga-Gd ... Hf-Zr - B. Predel 1996

For everyone concerned with the technology and application of metals and alloys and with the development of new metallic materials, a detailed knowledge of phase equilibria is indispensable. Also, information on the thermodynamical and crystallographical data of the systems under investigation is essential, and often metastable crystalline phases as well as quasicrystalline or amorphous alloys are of interest. Vol. IV/5 therefore presents all these data. Because of the large amount available of experimental evidence and thermochemical calculations, a presentation in one volume, as it was realized several decades ago in the widely used book of M. Hansen "Aufbau der Zweistoff-Legierungen" proved to be impossible. So volume IV/5 had to be divided into several subvolumes which cover - in alphabetical order - all binary systems of importance. Subvolume IV/5f, the sixth of the series, deals with the systems Ga-Gd ... Hf-Zr. Further subvolumes will follow shortly.

The Periodic Table - D. H. Rouvray 2004

This book starts with chapters that trace the early history and development of the Periodic Table. The subsequent development of the Table is then presented in chapters that discuss the structure and characteristics of the Table, probe its group-theoretical and quantum-theoretical basis, examine its foundations, and explore its many uses and applications. (Midwest).

The Official Laboratory Research Notebook (50 duplicate sets) - Jones & Bartlett Learning, 2013-08-23

The Ideal Laboratory Notebook for Maintaining Accurate, Thorough Notes in Your Research Lab The Official Laboratory Research Notebook has been revised and updated to include information beneficial for both chemistry and biology courses. The notebook contains 50 consecutively numbered, carbonless duplicate pages, making it easy for students to tear out and submit their lab write-ups while still keeping an official copy. Each page is three-hole punched for notebook convenience. The Notebook contains: •Sargent-Welch’s Periodic Table of the Elements; •Table on Concentrations of Reagents; •Table of Useful Data Manipulations; •New Table of Densities; •Boiling Points of some common organic solvents; and •Acid and Base Dissociation Constants

Surface Analysis Methods in Materials Science - John O'Connor 2003-04-23

This guide to the use of surface analysis techniques, now in its second edition, has expanded to include more techniques, current applications and updated references. It outlines the application of surface analysis techniques to a broad range of studies in materials science and engineering. The book consists of three parts: an extensive introduction to the concepts of surface structure and composition, a techniques section describing 19 techniques and a section on applications. This book is aimed at industrial scientists and engineers in research and development. The level and content of this book make it ideal as a course text for senior undergraduate and postgraduate students in materials science, materials engineering, physics, chemistry and metallurgy.

Dimensions - 1976

Stanford R. Ovshinsky - Stanford R. Ovshinsky 2008

This book highlights the achievements of the self-taught inventor, scientist, manufacturer and entrepreneur, Stanford R Ovshinsky. This remarkable individual could, without special training, compete with the well-funded establishments of learning and industry in the second half of the last century and leave us an incredible legacy of brilliant innovations with a lasting impact on our lives. His achievements extend over amazingly diverse fields and have or are prone to create new industries of great societal value. The phase change memories of commonly used rewritable CDs and DVDs as well as of new flash memories are his invention; so are the Ni Metal hydride batteries which are the enabling batteries for electric and hybrid/electric vehicles. The future hydrogen economy will utilize his efficient and safe hydrogen storage alloys. He has developed light and ultralight photovoltaic solar panels for converting sunlight into electricity and built the largest manufacturing facility for thin film flexible solar roofing materials. A common theme of his inventions is the synthesis of new materials utilizing novel aspects of structural and compositional disorder.The book explains for each of

Ovshinsky's innovations the essence of his pioneering ideas and inventions. These introductions are followed by a selection of Ovshinsky's seminal publications and, for each subject category, a list of his patents which reveal the inventive mind of this unusually creative person. Ovshinsky's example of gaining a deep understanding of the science underlying his inventions, his perseverance as well as his ability to attract and inspire talented collaborators will be a role model for entrepreneurs of this century.

Catalog of Copyright Entries. Third Series - Library of Congress. Copyright Office 1973

Principles of Surface Physics - Friedhelm Bechstedt 2012-12-06

An innovative, unified, and comprehensive treatment of the geometric and electronic structure of surfaces. The book emphasizes fundamental aspects, such as the principles of surface crystallography and thermodynamics, the forces driving the rearrangement of the atoms, and the relationship between bonding and electronic structure. It especially illuminates the relationship between surface orientation, chemistry, energetics, and the resulting properties. Principles of Surface Physics develops general physical arguments and methods that enable readers to analyse novel surfaces and interfaces of new materials. This makes the book an indispensable reference to all those studying growth, surface-molecule interactions, self-assembled structures, and materials engineering.

Current Topics in Amorphous Materials - Y. Sakurai 2013-10-22

This review addresses the current state-of-the-art in the physics of amorphous materials and its practical applications. Because of the keen interest in these new technological innovations in the amorphous material application fields, particular emphasis has been placed on some important basic knowledge and current topics in the application fields which inlude information directly useful to scientists and R&D engineers in industry, institutes and university laboratories.

Selected Pyrotechnic Publications of K. L. and B. J. Kosanke, Part 4 - Kenneth L. Kosanke 1999-12

These are a collection of previously published technical papers on a variety of pyrotechnic topics. The articles have been reformatted into a 2-column, 81⁄2x11" format with medium print. Only those articles that continue to be of interest and use to pyrotechnicians have been included.

Zahlenwerte und Funktionen aus Naturwissenschaften und Technik, neue Serie - 1992

Crystal Chemistry and Refractivity - Howard W. Jaffe 1996-01-01

Mainly concerned with the arrangements of atoms in a crystalline array and the nature of their chemical bonding in minerals, this book emphasizes the relationships of atomic and electronic structure, chemical bonding, symmetry of regular and distorted atomic arrays and optical properties of crystalline minerals. 1988 edition.

Modern Ceramic Engineering - David W. Richerson 1992-01-31

Ceramic materials have proven increasingly important in industry and in the fields of electronics, communications, optics, transportation, medicine, energy conversion and pollution control, aerospace, construction, and recreation. Professionals in these fields often require an improved understanding of the specific ceramics materials they are using.