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Chemistry II For Dummies John Wiley & Sons
This book is based on the lectures and contributions of the NATO Advanced Study Institute on “Nanoscience and Nanotechnology in Security and Protection Against CBRN Threats” held in Sozopol, Bulgaria, September 2019. It gives a broad overview on this topic as it combines articles addressing the preparation and characterization of different nanoscaled materials (metals, oxides, glasses, polymers, carbon-based, etc.) in the form of nanowires, nanoparticles, nanocomposites, nanodots, thin films, etc. and contributions on their applications in diverse security and safety related fields. In addition, it presents an interdisciplinary approach drawing on the Nanoscience and Nanotechnology know-how of authors from Physics, Chemistry, Engineering, Materials Science and Biology. A further plus-point of the book, which represents the knowledge of experts from over 20 countries, is the combination of longer papers introducing the background on a certain topic, and brief contributions highlighting specific applications in different security areas.
das Basiswissen der Chemie ; 126 Tabellen Springer-Verlag
This thesis deals with Rare Earth Elements (REE), especially with neodymium used in permanent magnets, from a very scientific basis by providing basic research data. Despite the fact that REE are newsworthy and very important elements for a considerable bandwidth of todays’ technologies, accompanied by the monopolistic supply-situation and Chinese politics, there are inexplicable data discrepancies about REE which have been recognized frequently but usually have not been addressed accordingly. So this analysis started with the hypothesis that the four application areas, namely computer hard disk drives (HDD), mobile phones, wind turbines and e-mobility (automotive traction), account for about 80% of the global annual neodymium-demand. The research methodology was a laboratory analysis of the composition of used magnets for HDDs and mobile phones and a literature and official report analysis of wind turbine and automotive neodymium use. The result was amazing and the hypothesis had to be withdrawn as these four areas only account for about 20% of neodymium use. This result raises some questions concerning actual use and thus potential recycling options.
Allgemeine Chemie John Wiley & Sons
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How to Protect Yourself and Your Business from Fraud--America's #1 Crime GRIN Verlag
All essential areas of basic synthetic carbohydrate chemistry are covered and appropriately described. In addition, this

book explains the basic reaction mechanisms while taking into account modern concepts such as stereoelectronic principles.

Chemie KIT Scientific Publishing

This workbook in stereochemistry is designed for students, lecturers and scientists in chemistry, pharmacy, biology and medicine who deal with chiral chemical compounds and their properties. It serves as a supplement to textbooks and seminars and thus provides selected examples for students to practice the use of the conventions and terminology for the exact three-dimensional description of chemical compounds. It contains 191 problems with extended solutions.

Anorganische Chemie, Organische Chemie, Analytische Chemie Cambridge University Press

Powdered Crude Drug Microscopy of Leaves and Barks investigates various microscopic techniques used in the examination of structural and cellular features in order to determine their botanical origin. These methods are useful in identifying species with similar morphological characters. Today, there is a variety of methods available to authenticate herbal drugs, ranging from simple morphological examination to physical and chemical analysis, and DNA molecular biology. Due to cost, powder microscopy is the most practical method for primary authentication. Botanical microscopy is a unique, valuable, rapid and cost-effective assessment tool, and plays an important role in the authentication and assessment of medicinal plants. This book is an essential resource for students and researchers involved in the study of plants and natural products, as well as professionals in industries manufacturing plant-based products for use during quality control and assurance steps. Provides a fundamental understanding of the macroscopic and microscopic characteristics of crude drugs, including photographs of herbs in their raw and powder forms. Presents specific characteristics and sub-features for identifying barks and leaves, including stone cells, calcium oxalate crystals, starch grains, medullary rays, fibres, sclereids, cork, isolated oil cells, tubular lactiferous canals, phloem parenchyma, masses, rhytidoma, parenchyma and secretory canals. Includes specific characteristics for identifying leaves, such as epidermis, stomata, trichomes, calcium oxalate crystals, fibres, cell contents, cystoliths, lamina, starch grains, tracheids, lactiferous canals and xylem vessels. Demonstrates how the specificity of characteristics for a particular bark or leaf in powder form can lead to its authentication. Features standard operating protocols for preparation of slides and lab samples using industrially operated grinders to observe general as well as distinguishing microscopical characters of barks and leaves.

Reaction Mechanisms Springer

A best-selling mechanistic organic chemistry text in Germany, this text's translation into English fills a long-existing need for a modern, thorough and accessible treatment of reaction mechanisms for students of organic chemistry at the advanced undergraduate and graduate level. Knowledge of reaction mechanisms is essential to all applied areas of organic chemistry; this text fulfills that need by presenting the right material at the right level.

191 Problems and Solutions Academic Press

A unique and comprehensive account of

attitudes to slavery in ancient Greece and Rome.

Chemistry Cuvillier Verlag

Marie Sklodowska Curie (1867–1934) was the first woman scientist to win worldwide acclaim and was, indeed, one of the great scientists of the twentieth century. Written by Curie's daughter, the renowned international activist Eve Curie, this biography chronicles Curie's legendary achievements in science, including her pioneering efforts in the study of radioactivity and her two Nobel Prizes in Physics and Chemistry. It also spotlights her remarkable life, from her childhood in Poland, to her storybook Parisian marriage to fellow scientist Pierre Curie, to her tragic death from the very radium that brought her fame.

Nanoscience and Nanotechnology in Security and Protection against CBRN Threats Harvard University Press

Der erste Band der Reihe „Chemie-Basiswissen“ vermittelt die allgemeinen Grundlagen der Chemie für Bachelor-Studiengänge sowie für Studierende des höheren Lehramts. Die Autoren präsentieren die am Curriculum orientierte Stoffauswahl in kurzer und übersichtlicher Form und in einem lernfreundlichen Layout. In der 10. Auflage sind die Inhalte noch genauer auf die Bedürfnisse der Studierenden zugeschnitten. Zu der für das Hauptfach Chemie darüber hinaus erforderlichen Chemie der Elemente ist jetzt ein eigener, vierter Band erschienen.

Chemie Elsevier

An introductory textbook on the structural principles of inorganic-chemical molecules and solids. Traditional concepts and modern approaches are considered and demonstrated with the aid of examples. The most important structural types are examined from different perspectives.

Demand, Technologies, Integration Elsevier

Magisterarbeit aus dem Jahr 2021 im Fachbereich Energiewissenschaften, Note: 11, Friedrich-Schiller-Universität Jena, Sprache: Deutsch, Abstract: Diese Arbeit setzt sich vorwiegend mit der Änderung des Energiewirtschaftsgesetzes (EnWG) zur Umsetzung unionsrechtlicher Vorgaben und zur Regelung reiner Wasserstoffnetze im Energiewirtschaftsrecht auseinander. Die EnWG-Änderung soll hierbei aus juristischer Sicht beleuchtet und einer Kritik unterzogen werden Wasserstoff – ein Begriff, der im Zuge der Energiewende oft verwendet wird. Seine Bedeutung ist in den letzten Monaten enorm gestiegen. Von einigen Seiten wird er als Energieträger der Zukunft bezeichnet. Wasserstoff wird als das "Gas der Zukunft" und als Bindeglied zwischen der Erzeugung von Elektrizität einerseits und der Speicherung dieser andererseits gesehen. Wasserstoff ist vielseitig und kann in zahlreichen Sektoren zur Anwendung kommen. Er könnte als Kitt zwischen den Sektoren des Stroms und der Industrie sowie des Mobilitätssektors angesehen werden. Auch wurde er als "zweite Säule der Energiewende" betitelt.

Chemie Springer

Provides a thorough understanding of the chemistry and physics of defects, enabling the reader to manipulate them in the engineering of materials. Reinforces theoretical concepts by placing emphasis on real world processes and applications. Includes two kinds of end-of-chapter problems: multiple choice (to test knowledge of terms and principles) and more extensive exercises and calculations (to build skills and understanding).

Supplementary material on crystallography and band structure are included in separate appendices.
das Basiswissen der Chemie ; mit Übungsaufgaben Doubleday
The authors of this Handbook offer a comprehensive overview of the various aspects of energy storage. After explaining the importance and role of energy storage, they discuss the need for energy storage solutions with regard to providing electrical power, heat and fuel in light of the Energy Transition. The book’s main section presents various storage technologies in detail and weighs their respective advantages and disadvantages. Sections on sample practical applications and the integration of storage solutions across all energy sectors round out the book. A wealth of graphics and examples illustrate the broad field of energy storage, and are also available online. The book is based on the 2nd edition of the very successful German book Energiespeicher. It features a new chapter on legal considerations, new studies on storage needs, addresses Power-to-X for the chemical industry, new Liquid Organic Hydrogen Carriers (LOHC) and potential-energy storage, and highlights the latest cost trends and battery applications. “Finally – a comprehensive book on the Energy Transition that is written in a style accessible to and inspiring for non-experts.” Franz Alt, journalist and book author “I can recommend this outstanding book to anyone who is truly interested in the future of our country. It strikingly shows: it won’t be easy, but we can do it.” Prof. Dr. Harald Lesch, physicist and television host
Phosphorus: Polluter and Resource of the Future Chemiedas Basiswissen der ChemieChemiedas Basiswissen der ChemieChemiedas Basiswissen der Chemie ; 126 Tabellen
Describes the tricks of the scam trade, offering advice on how to identify and outsmart perpetrators of fraud and how to safeguard oneself against identity theft and the misuse of Social Security numbers.
d. Basiswissen d. Chemie in Schwerpunkten ; mit Übungsaufgaben John Wiley & Sons
Good,No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.
Chemie Springer Science & Business Media
Capturing England's intoxication with a wider world through ballads, plays, and paintings; the stark reality of Jamestown, through the words of its inhabitants; and with archeological and environmental evidence, Kupperman re-creates Jamestown's formative years with astonishing detail.
Chemie für Mediziner IWA Publishing
Pressure, like temperature, is one of the most important parameters governing the state of matter. Today, high-pressure science and technology is applied to diverse research fields: physics, chemistry, biology, earth and marine sciences, material science and technology, chemical engineering, biotechnology and medicine. Research on liquids and solutions at high pressure is not only important for elucidating the structure of liquids, intermolecular interactions between solutes and solvents and chemical reactions in solutions, but also for providing fundamental numerical data for the design of chemical plants and the development of chemical processes. In particular, high-pressure studies of water and aqueous solutions are closely

correlated with research into bioscience and biotechnology. In this volume some of the most important and most recent advances in liquids and solutions at high pressure in Japan are presented.

The Origin and Development of Humanistic Script Ed. di Storia e Letteratura

This is a fascinating introduction to the topic. Spanning the spectrum of nucleic acid chemistry, carbohydrates, peptides, molecular recognition, biosynthesis and natural biosynthesis, right up to medical and biophysical chemistry, the book provides advanced students and those already working in the field with a balanced overview. In more than 30 contributions, a new generation of recognized scientists gives an account of the latest research in such areas as * Artificial receptors for the stabilization of ß-sheet structures * Carbohydrate recognition by artificial receptors * Combinatorial chemistry as a tool for the discovery of catalysts * The interaction of NO and peroxynitrite with hemoglobin and myoglobin * Inhibitors against human mast-cell-tryptase as a potential approach to conquering asthma * The selectivity of DNA replication. A readily accessible survey for everyone wishing to stay abreast of developments. With a Foreword by Ronald Breslow.

Springer Science & Business Media

The tools you need to ace your Chemisty II course College success for virtually all science, computing,engineering, and premedical majors depends in part on passingchemistry. The skills learned in chemistry courses are applicableto a number of fields, and chemistry courses are essential tostudents who are studying to become nurses, doctors, pharmacists,clinical technicians, engineers, and many more among thefastest-growing professions. But if you're like a lot of studentswho are confused by chemistry, it can seem like a daunting task totackle the subject. That's where Chemistry II For Dummiescan help! Here, you'll get plain-English, easy-to-understand explanationsof everything you'll encounter in your Chemistry II class. Whetherchemistry is your chosen area of study, a degree requirement, or anelective, you'll get the skills and confidence to score high andenhance your understanding of this often-intimidating subject. Sowhat are you waiting for? Presents straightforward information on complex concepts Tracks to a typical Chemistry II course Serves as an excellent supplement to classroom learning Helps you understand difficult subject matter with confidenceand ease Packed with approachable information and plenty of practiceopportunities, Chemistry II For Dummies is just what youneed to make the grade.

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