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KEY=ELECTRON - BARRON JAXON

HANDBOOK OF HIGH-RESOLUTION SPECTROSCOPY

John Wiley & Sons *The field of High-Resolution Spectroscopy has been considerably extended and even redefined in some areas. Combining the knowledge of spectroscopy, laser technology, chemical computation, and experiments, Handbook of High-Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today, with emphasis on the recent developments. This essential handbook for advanced research students, graduate students, and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications. The first comprehensive survey in high-resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy, laser technology, chemical computation and experiments Brings the reader up-to-date with the many advances that have been made in recent times Takes the reader through the range of wavelengths, covering all possible techniques such as Microwave Spectroscopy, Infrared Spectroscopy, Raman Spectroscopy, VIS, UV and VUV Combines theoretical, computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field Provides an overview of rotational, vibration, electronic and photoelectron spectroscopy Volume 1 - Introduction: Fundamentals of Molecular Spectroscopy Volume 2 - High-Resolution Molecular Spectroscopy: Methods and Results Volume 3 - Special Methods & Applications*

MARCH'S ADVANCED ORGANIC CHEMISTRY

REACTIONS, MECHANISMS, AND STRUCTURE

John Wiley & Sons

QUANTITIES, UNITS AND SYMBOLS IN PHYSICAL CHEMISTRY

Royal Society of Chemistry *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.*

SCIENTIFIC STYLE AND FORMAT

THE CBE MANUAL FOR AUTHORS, EDITORS, AND PUBLISHERS

Cambridge University Press *Focuses on style for those publishing in the scientific disciplines, including citations, abbreviations, and capitalization*

ELECTRON SPECTROSCOPY FOR SURFACE ANALYSIS

Springer Science & Business Media *The development of surface physics and surface chemistry as a science is closely related to the technical development of a number of methods involving electrons either as an excitation source or as an emitted particle carrying characteristic information. Many of these various kinds of electron spectroscopies have become commercially available and have made their way into industrial laboratories. Others are still in an early stage, but may become of increasing importance in the future. In this book an assessment of the various merits and possible drawbacks of the most frequently used electron spectroscopies is attempted. Emphasis is put on prac tical examples and experimental design rather than on theoretical considerations. The book addresses itself to the reader who wishes to know which electron spectroscopy or which combination of different electron spectroscopies he may choose for the particular problems under investigation. After a brief introduction the practical design of electron spectrometers and their figures of merit important for the different applications are discussed in Chapter 2. Chapter 3 deals with electron excited electron spectroscopies which are used for the elemental analysis of surfaces. Structure analysis by electron diffrac tion is described in Chapter 4 with special emphasis on the use of electron diffrac tion for the investigation of surface imperfections. For the application of electron diffraction to surface crystallography in general, the reader is referred to Volume 4 of "Topics in Applied Physics".*

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PRODUCT CATALOG - CHINA NATIONAL STANDARDS & INDUSTRY STANDARDS

https://www.chinesestandard.net *This document provides the comprehensive list of Chinese National Standards and Industry Standards (Total 17,000 standards).*

GB/T; GBT - PRODUCT CATALOG. TRANSLATED ENGLISH OF CHINESE STANDARD. (GB/T; GBT)

PRODUCT CATALOG - CHINESE NATIONAL STANDARD: GB/T; GBT

https://www.chinesestandard.net *This document provides the comprehensive list of Chinese National Standards - Category: GB/T; GBT.*

GB, GB/T, GBT - PRODUCT CATALOG. TRANSLATED ENGLISH OF CHINESE STANDARD (ALL NATIONAL STANDARDS GB, GB/T, GBT, GBZ)

PRODUCT CATALOG - CHINA NATIONAL STANDARD: GB; GB/T; GBT

https://www.chinesestandard.net *This document provides the comprehensive list of Chinese National Standards - Category: GB; GB/T, GBT.*

CANADIAN JOURNAL OF CHEMISTRY

HANDBOOK OF MINERAL SPECTROSCOPY

VOLUME 1: X-RAY PHOTOELECTRON SPECTRA

Elsevier *Handbook of Mineral Spectroscopy, Volume 1: X-ray Photoelectron Spectra presents a database of X-ray Photoelectron spectra showing both survey (with chemical analysis) and high-resolution spectra of more than 200 rock-forming and major ore minerals. XPS of minerals is a very powerful technique for analyzing not only the chemical composition of minerals – including, for other techniques, difficult elements such as F and Cl, but also the local environment of atoms in a crystal structure. The book includes a section on silicates and on non-silicates, and is further subdivided according to the normal mineral classes. Brings together and expands upon the limited information available on the XPS of minerals into one handbook Features 2,500 full color, X-ray Photoelectron survey and high-resolution Spectra for use by researchers in the lab and as a reference Includes the chemical information of each mineral Written by experts with more than 50 years of combined mineral spectroscopy experience*

CORE-LEVEL SPECTROSCOPY IN CONDENSED SYSTEMS

PROCEEDINGS OF THE TENTH TANIGUCHI INTERNATIONAL SYMPOSIUM, KASHIKOJIMA, JAPAN, OCTOBER 19–23, 1987

Springer Science & Business Media *Core-level Spectroscopy in Condensed Systems describes how recent improvement of various experimental methods, together with new light and x-ray sources, have provided fresh information about the electronic states and atomic structures of a wide variety of materials. The topics coveredrange from the high-energy spectroscopy of bulk electronic states of rare-earth and transition metals and compounds, including high T superconductors, to recent developments in photoelectron diffraction and other surface problems, all with emphasis on theoretical aspects.*

CHEMISTRY INTERNATIONAL

SURFACE CHARACTERIZATION OF ADVANCED POLYMERS

Wiley-VCH *Surface Characterization of Advanced Polymers Edited by Luigia Sabbatini and Pier Giorgio Zambonin This book provides a comprehensive approach to the surface analysis of polymers of technological interest by means of modern electron and ion spectroscopies (XPS, ToF-SIMS, ISS, HREELS). Case studies are critically discussed by well-known experts who propose strategies for the*

unequivocal interpretation of surface spectroscopic findings. Newcomers to the field will benefit from the extensive introductory chapter describing the fundamentals of spectroscopic techniques. This is a specialized book, written at an easily comprehensible level. It is recommended to all people involved in surface characterization and chemical analysis and, more generally, interested in polymer science and advanced materials. Professors at the University of Bari, Italy, Luigia, Sabbatini and Pier Giorgio Zambonin have published extensively in the field. Their research interests include electrosynthesis, spectroscopic characterization and applications of conducting and semiconducting polymers.

GROUP THEORY IN CHEMISTRY AND SPECTROSCOPY

A SIMPLE GUIDE TO ADVANCED USAGE

Courier Corporation *This handbook on group theory is geared toward chemists and experimental physicists who use spectroscopy and require knowledge of the electronic structures of the materials they investigate. Accessible to undergraduate students, it takes an elementary approach to many of the key concepts. Rather than the deductive method common to books on mathematics and theoretical physics, the present volume introduces fundamental concepts with simple examples, relating them to specific chemical and physical problems. The text is centered on detailed analysis of examples. Since neither chemists nor spectroscopists require theorem proofs, very few appear here. Instead, the focus remains on the principal conclusions, their meaning, and their use. In keeping with the text's practical bias, the main results of group theory are presented in all sections as procedures, making possible their systematic and step-by-step-application. Each chapter contains problems that develop practical skill and provide a valuable supplement to the text.*

ATOM, LASER AND SPECTROSCOPY

PHI Learning Pvt. Ltd. *Experimental spectroscopic techniques, especially those involving lasers, have wide-ranging applications in the fields of physics, medicine, electronics, and chemistry. Keeping in mind the importance of spectroscopic detection and characterization of atomic and molecular species, this book, now in its Second Edition, is updated. It deals with both the conventional and modern experimental techniques related to atoms, spectroscopy and lasers. It discusses the recent innovations, types and operating principles of lasers and laser systems. A section on Fiber Laser has been added in the new edition of the book. Recent developments in planetary detection of atoms and molecules by Laser Induced Breakdown Spectroscopy (LIBS) has prompted the inclusion of a section on LIBS on planet Mars along with its applications. Primarily intended as a text for undergraduate and postgraduate students of Physics in various Indian universities, this uptodate book would be immensely useful also for both undergraduate and postgraduate students in Chemistry, Astrophysics, Metallurgy and Material Science, and Geology and Mining. Key Features Coverage is quite extensive to cater to students of most Indian universities—with detailed discussions on atoms, spectroscopy and lasers. Gives special emphasis on modern aspects of spectroscopy such as laser cooling of atoms. Contains more than 140 diagrams to illustrate the concepts better.*

ADVANCES IN ELECTRONICS AND ELECTRON PHYSICS

Academic Press *Advances in Electronics and Electron Physics*

JOURNAL OF THE CHEMICAL SOCIETY

FARADAY TRANSACTIONS

ATOM, LASER AND SPECTROSCOPY

PHI Learning Pvt. Ltd.

EXPERIMENTAL METHODS IN CATALYTIC RESEARCH

New York : Academic Press

HANDBOOK FOR CRITICAL CLEANING

CRC Press *With all the cleaning approaches available, how do you choose which one is best for your needs? Components manufacturers wonder which will provide a competitive edge. Chemists and engineers worry about the effect of any process modification on a critical component or on the stability of an irreplaceable antique. There is no silver bullet, n*

SPECTROSCOPY

AN INTERDISCIPLINARY INTEGRAL DESCRIPTION OF SPECTROSCOPY FROM UV TO NMR

vdf Hochschulverlag AG *This book provides a novel view of spectroscopic methods: it describes spectroscopy holistically in terms of integral physical aspects instead of the classical methodic order according to wavelengths. The book introduces the reader to UV/Vis, NIR, IR, ESR, and NMR spectroscopy. These methods and their common physical basis, namely the reversible absorption of energy from the respective region of the electromagnetic spectrum, are illustrated in a comprehensive manner with the help of a multitude of explicative colored graphics.*

NETWORKING IN TERMINOLOGY

INTERNATIONAL CO-OPERATION IN TERMINOLOGY WORK : PROCEEDINGS, SECOND INFOTERM SYMPOSIUM

K G Saur Verlag Gmbh & Company

LASERS

A GUIDE TO THE BOOK LITERATURE

Nova Publishers *Developments in lasers continue to enable progress in many areas such as eye surgery, the recording industry and dozens of others. This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject, author and titles indexes.*

ELECTRONIC AND PHOTOELECTRON SPECTROSCOPY

FUNDAMENTALS AND CASE STUDIES

Cambridge University Press *Electronic and photoelectron spectroscopy can provide extraordinarily detailed information on the properties of molecules and are in widespread use in the physical and chemical sciences. Applications extend beyond spectroscopy into important areas such as chemical dynamics, kinetics and atmospheric chemistry. This book aims to provide the reader with a firm grounding of the basic principles and experimental techniques employed. The extensive use of case studies effectively illustrates how spectra are assigned and how information can be extracted, communicating the matter in a compelling and instructive manner. Topics covered include laser-induced fluorescence, resonance-enhanced multiphoton ionization, cavity ringdown and ZEKE spectroscopy. The volume is for advanced undergraduate and graduate students taking courses in spectroscopy and will also be useful to anyone encountering electronic and/or photoelectron spectroscopy during their research.*

SAFETY OF NANOMATERIALS ALONG THEIR LIFECYCLE

RELEASE, EXPOSURE, AND HUMAN HAZARDS

CRC Press *The incorporation of nanomaterials into products can improve performance, efficiency, and durability in various fields ranging from construction, energy management, catalysis, microelectronics, plastics, coatings, and paints to consumer articles such as foods and cosmetics. But innovation never comes at zero risk. The potential hazards resulting from human exposure during production, use, or disposal has raised concerns and targeted research early on. Safety of Nanomaterials along Their Lifecycle: Release, Exposure, and Human Hazards presents the state of the art in nanosafety research from a lifecycle perspective. Although major knowledge gaps still exist, solid data are now available to identify scenarios of critical risk as well as those of safe nanomaterial use for our benefit. The book is divided into four parts: characterization, hazard, release and exposure, and real-life case studies. To improve coherence throughout the book, various chapters review the same suite of well-characterized, judiciously chosen, and identical industrial nanomaterials. The book is a helpful resource to professionals in product development, industrial design, regulatory agencies, and materials scientists and engineers involved in the safety of nanomaterials.*

MODERN ESCATHE PRINCIPLES AND PRACTICE OF X-RAY PHOTOELECTRON SPECTROSCOPY

CRC Press *Modern ESCA: The Principles and Practice of X-Ray Photoelectron Spectroscopy is a unique text/reference that focuses on the branch of electron spectroscopy generally labeled as either Electron Spectroscopy for Chemical Analysis (ESCA) or X-ray Photoelectron Spectroscopy (XPS). The book emphasizes the use of core level and valence band binding energies, their shifts, and line widths. It describes the background, present status, and possible future uses of a number of recently developed branches of ESCA, including:*

IUPAC HANDBOOK

DICCIONARIO DE QUÍMICA FÍSICA

Ediciones Díaz de Santos

INDIAN JOURNAL OF CHEMISTRY

INORGANIC, PHYSICAL, THEORETICAL & ANALYTICAL. SECTION A

DEACTIVATION OF HEAVY OIL HYDROPROCESSING CATALYSTS

FUNDAMENTALS AND MODELING

John Wiley & Sons *Written by a scientist and researcher with more than 25 years of experience in the field, this serves as a complete guide to catalyst activity loss during the hydroprocessing of heavy oils. Explores the physical and chemical properties of heavy oils and hydroprocessing catalysts; the mechanisms of catalyst deactivation; catalyst characterization by a variety of techniques and reaction conditions; laboratory and commercial information for model validations; and more Demonstrates how to develop correlations and models for a variety of reaction scales with step-by-step descriptions and detailed experimental data Contains important implications for increasing operational efficiencies within the petroleum industry An essential reference for professionals and researchers working in the refining industry as well as students taking courses on chemical reaction engineering*

SPECTROSCOPY

Krishna Prakashan Media

MOLECULAR SYMMETRY AND SPECTROSCOPY

Elsevier *Molecular Symmetry and Spectroscopy deals with the use of group theory in quantum mechanics in relation to problems in molecular spectroscopy. It discusses the use of the molecular symmetry group, whose elements consist of permutations of identical nuclei with or without inversion. After reviewing the permutation groups, inversion operation, point groups, and representation of groups, the book describes the use of representations for labeling molecular energy. The text explains an approximate time independent Schrödinger equation for a molecule, as well as the effect of a nuclear permutation or the inversion of E* on such equation. The book also examines the expression for the complete molecular Hamiltonian and the several groups of operations commuting with the Hamiltonian. The energy levels of the Hamiltonian can then be symmetrically labeled by the investigator using the irreducible representations of these groups. The text explains the two techniques to change coordinates in a Schrödinger equation, namely, (1) by using a diatomic molecule in the rovibronic Schrödinger equation, and (2) by a rigid nonlinear polyatomic molecule. The book also explains that using true symmetry, basis symmetry, near symmetry, and near quantum numbers, the investigator can label molecular energy levels. The text can benefit students of molecular spectroscopy, academicians, and investigators of molecular chemistry or quantum mechanics.*

HANDBOOK ON THE PHYSICS AND CHEMISTRY OF THE ACTINIDES

Elsevier Science Limited *The purpose of this book is to give a theoretical and practical introduction to seismic-while-drilling by using the drill-bit noise. This recent technology offers important products for geophysical control of drilling. It involves aspects typical of borehole seismics and of the drilling control surveying, hitherto the sole domain of mudlogging. For aspects related to the drill-bit source performance and borehole acoustics, the book attempts to provide a connection between experts working in geophysics and in drilling. There are different ways of thinking related to basic knowledge, operational procedures and precision in the observation of the physical quantities. The goal of the book is to help "build a bridge" between geophysicists involved in seismic while drilling - who may need to familiarize themselves with methods and procedures of drilling and drilling-rock mechanics - and drillers involved in geosteering and drilling of "smart wells" - who may have to familiarize themselves with seismic signals, wave resolution and radiation. For instance, an argument of common interest for drilling and seismic while drilling studies is the monitoring of the drill-string and bit vibrations. This volume contains a large number of real examples of SWD data analysis and applications.*

ELECTROMAGNETISM FOR SIGNAL PROCESSING, SPECTROSCOPY AND CONTEMPORARY COMPUTING

FUNDAMENTALS AND APPLICATIONS

CRC Press *This comprehensive textbook will help readers to acquire a thorough understanding of the fundamentals of electromagnetism and its applications in various areas including spectroscopy, signal processing and contemporary computation. The text introduces the principals and applications of electricity, magnetism and electromagnetic theory which is foundation for communication systems, spectroscopy, and modern computing. It is followed by discussing the digital systems and their importance in computing, difference between digital signal transmission and wireless media, visualization techniques and useful simulation and computational techniques, besides advances in quantum computing. Aimed at senior undergraduate and graduate students in the field of electrical engineering, electronics and communication engineering, this textbook: Provides fundamentals of electromagnetism and its applications in a single volume. Covers recent developments in computing and artificial intelligence. Discussion digital signal processing and wireless communication in depth. Covers advanced applications of electromagnetism in communication, spectroscopy, and computing. Discusses Computer Modelling & Simulation, Artificial Intelligence, and Quantum Computing.*

NUCLEAR SPECTROSCOPY ON CHARGE DENSITY WAVE SYSTEMS

Springer Science & Business Media *Nuclear magnetic resonance (NMR), nuclear quadrupole resonance (NQR), time differential perturbed angular correlations (TDPAC), and the Mössbauer effect (ME) have been applied to the study of charge density wave (CDW) systems. These hyperfine techniques provide unique tools to probe the structure and symmetry of commensurate CDWs, give a clear fingerprint of incommensurate CDWs, and are ideally suited for CDW dynamics. This book represents a new attempt in the series `Physics and Chemistry of Materials with Low-dimensional Structures' to bring together a consistent group of scientific results obtained by nuclear spectroscopy related to CDW phenomena in pseudo-one- and two-dimensional systems. The individual chapters contain: the theory of CDWs in chain-like transition metal tetrachalcogenides; NMR, NQR, TDPAC, and ME investigations of layered transition metal dichalcogenides; NMR studies of CDW-transport in chain-like NbSe3 and molybdenum bronzes; multinuclear NMR of KCP; high resolution NMR of organic conductors. This book is of interest to graduate students and all scientists who want to acquire a broader knowledge of nuclear spectroscopy techniques applied to CDW systems.*

NEW DIRECTIONS IN HADRON SPECTROSCOPY

PROCEEDINGS OF THE SUMMER SYMPOSIUM HELD AT ARGONNE NATIONAL LABORATORY, JULY 7-10, 1975

COMPENDI DE NOMENCLATURA DE QUIMICA ANALITICA

Institut d'Estudis Catalans

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CHINESE STANDARD(ENGLISH VERSION)

www.codeofchina.com *All English-translated Chinese codes are available at: www.codeofchina.com*

KINETICS AND SPECTROSCOPY OF LOW TEMPERATURE PLASMAS

Springer *This is a comprehensive textbook designed for graduate and advanced undergraduate students. Both authors rely on more than 20 years of teaching experience in renowned Physics Engineering courses to write this book addressing the students' needs. Kinetics and Spectroscopy of Low Temperature Plasmas derives in a full self-consistent way the electron kinetic theory used to describe low temperature plasmas created in the laboratory with an electrical discharge, and presents the main optical spectroscopic diagnostics used to characterize such plasmas. The chapters with the theoretical contents make use of a deductive approach in which the electron kinetic theory applied to plasmas with basis on the electron Boltzmann equation is derived from the basic concepts of Statistical and Plasma Physics. On the other hand, the main optical spectroscopy diagnostics used to characterize experimentally such plasmas are presented and justified from the point of view of the Atomic and Molecular Physics. Low temperature plasmas (LTP) are partially ionized gases with a broad use in many technological applications such as microelectronics, light sources, lasers, biology and medicine. LTPs lead to the production of atomic and molecular excited states, chemically reactive radicals, and activated surface sites, which are in the origin, among others, of the deposition of thin films, advanced nanotechnology products, solar cells, highly efficient combustion motors, and treatment of cancer cells.*

SPECTROSCOPY AND COLLISIONS OF FEW-ELECTRON IONS

PROCEEDINGS OF THE STUDY CONFERENCE SCOFEI '88, BUCHAREST, ROMANIA, AUGUST 29-SEPTEMBER 2, 1988

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