

X Ray Absorption Principles Applications Techniques Of Exafs Sexafs And Xanes

Spectroscopy for Surface Science R. J. H. Clark 1998-03-06 Surface analysis deals with characterizing and understanding the behavior of molecules which react on the surface between two substances. The latest self-contained volume in this long established and respected series of review articles on applications and instrumental developments in spectroscopy presents a high quality treatment of the frontiers of research occurring in modern spectroscopic methods. The internationally renowned authors have taken care to make their work accessible to experts and non-experts alike.

Spectroscopic Methods in Mineralogy A. Beran 2004

X-ray Absorption Fine Structure for Catalysts and Surfaces Yasuhiro Iwasawa 1996 X-ray absorption fine structure (XAFS) is a powerful technique in characterization of structures and electronic states of materials in many research fields including, e.g., catalysts, semiconductors, optical ingredients, magnetic materials, and surfaces. This characterization technique could be applied in a static or a dynamic state (in-situ condition). The XAFS can provide information that is not accessible by other techniques for characterization of materials, particularly catalysts and related surfaces. Furthermore, XAFS can provide a molecular-level approach to the study of reaction mechanisms for the understanding of catalysts and development of new catalysts. A number of synchrotron radiation facilities have been planned to be built in Asian countries in addition to the high-brilliant synchrotron radiation facilities under construction in the USA, Europe, and Japan. The applications of XAFS have now expanded to catalytic chemistry and engineering, surface science, organometallic chemistry, materials science, solid-state chemistry, geophysics, etc. This book caters to a wide range of researchers and students working in the domain or related topics.

Biophysical Techniques in Photosynthesis J. Amesz 2006-04-11 Progress in photosynthesis research is strongly dependent on instrumentation. It is therefore not surprising that the impressive advances that have been made in recent decades are paralleled by equally impressive advances in sensitivity and sophistication of physical equipment and methods. This trend started already shortly after the war, in work by pioneers like Lou Duysens, the late Stacy French, Britton Chance, Horst Witt, George Feher and others, but it really gained momentum in the seventies and especially the eighties when pulsed lasers, pulsed EPR spectrometers and solid-state electronics acquired a more and more prominent role on the scene of scientific research. This book is different from most others because it focuses on the techniques rather than on the scientific questions involved. Its purpose is three-fold, and this purpose is reflected in each chapter: (i) to give the reader sufficient insight in the basic principles of a method to understand its applications (ii) to give information on the practical aspects of the method and (iii) to discuss some of the results obtained in photosynthesis research in order to provide insight in its potentialities. We hope that in this way the reader will obtain sufficient information for a critical assessment of the relevant literature, and, perhaps more important, will gain inspiration to tackle problems in his own field of research. The book is not intended to give a comprehensive review of photosynthesis, but nevertheless offers various views on the exciting developments that are going on.

Introduction to XAFS Grant Bunker 2010-01-28 A comprehensive, practical guide, this textbook is ideally suited for graduate students in physics and chemistry starting XAFS-based research.

Spectroscopy for Materials Characterization Simonpietro Agnello 2021-09-08 SPECTROSCOPY FOR MATERIALS CHARACTERIZATION Learn foundational and advanced spectroscopy techniques from leading researchers in physics, chemistry, surface science, and nanoscience In Spectroscopy for Materials Characterization, accomplished researcher Simonpietro Agnello delivers a practical and accessible compilation of various spectroscopy techniques taught and used to today. The book offers a wide-ranging approach taught by leading researchers working in physics, chemistry, surface

science, and nanoscience. It is ideal for both new students and advanced researchers studying and working with spectroscopy. Topics such as confocal and two photon spectroscopy, as well as infrared absorption and Raman and micro-Raman spectroscopy, are discussed, as are thermally stimulated luminescence and spectroscopic studies of radiation effects on optical materials. Each chapter includes a basic introduction to the theory necessary to understand a specific technique, details about the characteristic instrumental features and apparatuses used, including tips for the appropriate arrangement of a typical experiment, and a reproducible case study that shows the discussed techniques used in a real laboratory. Readers will benefit from the inclusion of: Complete and practical case studies at the conclusion of each chapter to highlight the concepts and techniques discussed in the material Citations of additional resources ideal for further study A thorough introduction to the basic aspects of radiation matter interaction in the visible-ultraviolet range and the fundamentals of absorption and emission A rigorous exploration of time resolved spectroscopy at the nanosecond and femtosecond intervals Perfect for Master and Ph.D. students and researchers in physics, chemistry, engineering, and biology, Spectroscopy for Materials Characterization will also earn a place in the libraries of materials science researchers and students seeking a one-stop reference to basic and advanced spectroscopy techniques.

Multifunctional Polycrystalline Ferroelectric Materials Lorena Pardo 2011-02-14 This book presents selected topics on processing and properties of ferroelectric materials that are currently the focus of attention in scientific and technical research. Ferro-piezoelectric ceramics are key materials in devices for many applications, such as automotive, healthcare and non-destructive testing. As they are polycrystalline, non-centrosymmetric materials, their piezoelectricity is induced by the so-called poling process. This is based on the principle of polarization reversal by the action of an electric field that characterizes the ferroelectric materials. This book was born with the aim of increasing the awareness of the multifunctionality of ferroelectric materials among different communities, such as researchers, electronic engineers, end-users and manufacturers, working on and with ferro-piezoelectric ceramic materials and devices which are based on them. The initiative to write this book comes from a well-established group of researchers at the Laboratories of Ferroelectric Materials, Materials Science Institute of Madrid (ICMM-CSIC). This group has been working in different areas concerning thin films and bulk ceramic materials since the mid-1980s. It is a partner of the Network of Excellence on Multifunctional and Integrated Piezoelectric Devices (MIND) of the EC, in which the European Institute of Piezoelectric Materials and Devices has its origin.

Encyclopedia of Physical Organic Chemistry, 6 Volume Set Zerong Wang 2017-04-17 Winner of 2018 PROSE Award for MULTIVOLUME REFERENCE/SCIENCE This encyclopedia offers a comprehensive and easy reference to physical organic chemistry (POC) methodology and techniques. It puts POC, a classical and fundamental discipline of chemistry, into the context of modern and dynamic fields like biochemical processes, materials science, and molecular electronics. Covers basic terms and theories into organic reactions and mechanisms, molecular designs and syntheses, tools and experimental techniques, and applications and future directions Includes coverage of green chemistry and polymerization reactions Reviews different strategies for molecular design and synthesis of functional molecules Discusses computational methods, software packages, and more than 34 kinds of spectroscopies and techniques for studying structures and mechanisms Explores applications in areas from biology to materials science The Encyclopedia of Physical Organic Chemistry has won the 2018 PROSE Award for MULTIVOLUME REFERENCE/SCIENCE. The PROSE Awards recognize the best books, journals and digital content produced by professional and scholarly publishers. Submissions are reviewed by a panel of 18 judges that includes editors, academics, publishers and research librarians who evaluate each work for its contribution to professional and scholarly publishing. You can find out more at: proseawards.com Also available as an online edition for your library, for more details visit Wiley Online Library

Encyclopedia of Electrochemical Power Sources Jürgen Garche 2013-05-20 The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries, fuel cells, electrolyzers, supercapacitors, and photo-electrochemical cells. With a focus on

the environmental and economic impact of electrochemical power sources, this five-volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike. Covers the main types of power sources, including their operating principles, systems, materials, and applications Serves as a primary source of information for electrochemists, materials scientists, energy technologists, and engineers Incorporates nearly 350 articles, with timely coverage of such topics as environmental and sustainability considerations

Methods of Soil Analysis, Part 3 D. L. Sparks 2020-01-22 A thorough presentation of analytical methods for characterizing soil chemical properties and processes, Methods, Part 3 includes chapters on Fourier transform infrared, Raman, electron spin resonance, x-ray photoelectron, and x-ray absorption fine structure spectroscopies, and more.

Advanced Analytical Methods in Tribology Martin Dienwiebel 2018-10-04 This book presents the basics and methods of nanoscale analytical techniques for tribology field. It gives guidance to the application of mechanical, microstructural, chemical characterization methods and topography analysis of materials. It provides an overview of the of state-of-the-art for researchers and practitioners in the field of tribology. It shows different examples to the application of mechanical, microstructural, chemical characterization methods and topography analysis of materials. Friction and Wear phenomena are governed by complex processes at the interface of sliding surfaces. For a detailed understanding of these phenomena many surface sensitive techniques have become available in recent years. The applied methods are atom probe tomography, in situ TEM, SERS, NEXAFS, in situ XPS, nanoindentation and in situ Raman spectroscopy. A survey of new related numerical calculations completes this book. This concerns ab-initio coupling, numerical calculations for mechanical aspects and density functional theory (DFT) to study chemical reactivity.

Physics of Disordered Materials David Adler 2012-12-06 This volume and its two companion volumes, entitled Tetrahedrally-Bonded Amorphous Semiconductors and Localization and Metal-Insulator Transitions, are our way of paying special tribute to Sir Nevill Mott and to express our heartfelt wishes to him on the occasion of his eightieth birthday. Sir Nevill has set the highest standards as a physicist, teacher, and scientific leader. Our feelings for him include not only the respect and admiration due a great scientist, but also a deep affection for a great human being, who possesses a rare combination of outstanding personal qualities. We thank him for enriching our lives, and we shall forever carry cherished memories of this noble man. Scientists best express their thanks by contributing their thoughts and observations to a Festschrift. This one honoring Sir Nevill fills three volumes, with literally hundreds of authors meeting a strict deadline. The fact that contributions poured in from all parts of the world attests to the international cohesion of our scientific community. It is a tribute to Sir Nevill's stand for peace and understanding, transcending national borders. The editors wish to express their gratitude to Ghazaleh Koefod for her diligence and expertise in deciphering and typing many of the papers, as well as helping in numerous other ways. The blame for the errors that remain belongs to the editors.

Physical Electrochemistry Israel Rubinstein 1995-03-30 This volume details the basic principles of interfacial electrochemistry and heterogenous electron transfer processes. It presents topics of current interest in electrochemistry, considering the application of electrochemical techniques in a variety of disciplines, and nonelectrochemical methodologies in electrochemistry.;The work is intended for: electrochemists; analytical, physical, industrial and organic chemists; surface and materials scientists; materials and chemical engineers; physicists; and upper-level undergraduate and graduate students in these disciplines.

Encyclopedia of Materials Characterization Charles A. Evans 1992 "This is a comprehensive volume on analytical techniques used in materials science for the characterization of surfaces, interfaces and thin films. This flagship volume is a unique, stand-alone reference for materials science practitioners, process engineers, students and anyone with a need to know about the capabilities available in materials analysis. An encyclopedia of 50 concise articles, this book will also be a practical companion to the forthcoming books in the series."--Knovel.

Handbook of Solid State Batteries and Capacitors

On Solar Hydrogen and Nanotechnology Lionel Vayssieres 2010-01-26 More energy from the sun strikes Earth in an hour than is consumed by humans in an entire year. Efficiently harnessing solar power for sustainable generation of hydrogen requires low-cost, purpose-built, functional materials combined with inexpensive large-scale manufacturing methods. These issues are comprehensively addressed in *On Solar Hydrogen & Nanotechnology* – an authoritative, interdisciplinary source of fundamental and applied knowledge in all areas related to solar hydrogen. Written by leading experts, the book emphasizes state-of-the-art materials and characterization techniques as well as the impact of nanotechnology on this cutting edge field. Addresses the current status and prospects of solar hydrogen, including major achievements, performance benchmarks, technological limitations, and crucial remaining challenges Covers the latest advances in fundamental understanding and development in photocatalytic reactions, semiconductor nanostructures and heterostructures, quantum confinement effects, device fabrication, modeling, simulation, and characterization techniques as they pertain to solar generation of hydrogen Assesses and establishes the present and future role of solar hydrogen in the hydrogen economy Contains numerous graphics to illustrate concepts, techniques, and research results *On Solar Hydrogen & Nanotechnology* is an essential reference for materials scientists, physical and inorganic chemists, electrochemists, physicists, and engineers carrying out research on solar energy, photocatalysis, or semiconducting nanomaterials, both in academia and industry. It is also an invaluable resource for graduate students and postdoctoral researchers as well as business professionals and consultants with an interest in renewable energy.

Analytical Advances for Hydrocarbon Research Chang S. Hsu 2003-01-31 Determining the composition and properties of complex hydrocarbon mixtures in petroleum, synthetic fuels, and petrochemical products usually requires a battery of analytical techniques that detect and measure specific features of the molecules, such as boiling point, mass, nuclear magnetic resonance frequencies, etc. there have always been a need for new and improved analytical technology to better understand hydrocarbon chemistry and processes. This book provides an overview of recent advances and future challenges in modern analytical techniques that are commonly used in hydrocarbon applications. Experts in each of the areas covered have reviewed the state of the art, thus creating a book that will be useful to readers at all levels in academic, industry, and research institutions.

X-ray Characterization of Nanostructured Energy Materials by Synchrotron Radiation

Mehdi Khodaei 2017-03-22 Nowadays, nanomaterials are attracting huge attentions not only from a basic research point of view but also for their potential applications. Since finding the structure-property-processing relationships can open new windows in the application of materials, the material characterizations play a crucial role in the research and development of materials science. The increasing demand for energy with the necessity to find alternative renewable and sustainable energy sources leads to the rapid growth in attention to energy materials. In this book, the results of some outstanding researches on synchrotron-based characterization of nanostructured materials related to energy applications are presented.

X-ray Absorption: Principles, Applications, Techniques Of Exafs, Sexafs And Xanes D.C. Koningsberger

X-Ray Absorption and X-Ray Emission Spectroscopy Jeroen A. van Bokhoven 2016-03-21 During the last two decades, remarkable and often spectacular progress has been made in the methodological and instrumental aspects of x-ray absorption and emission spectroscopy. This progress includes considerable technological improvements in the design and production of detectors especially with the development and expansion of large-scale synchrotron reactors All this has resulted in improved analytical performance and new applications, as well as in the perspective of a dramatic enhancement in the potential of x-ray based analysis techniques for the near future. This comprehensive two-volume treatise features articles that explain the phenomena and describe examples of X-ray absorption and emission applications in several fields, including chemistry, biochemistry, catalysis, amorphous and liquid systems, synchrotron radiation, and surface

phenomena. Contributors explain the underlying theory, how to set up X-ray absorption experiments, and how to analyze the details of the resulting spectra. X-Ray Absorption and X-ray Emission Spectroscopy: Theory and Applications: Combines the theory, instrumentation and applications of x-ray absorption and emission spectroscopies which offer unique diagnostics to study almost any object in the Universe. Is the go-to reference book in the subject for all researchers across multi-disciplines since intense beams from modern sources have revolutionized x-ray science in recent years Is relevant to students, postdocurates and researchers working on x-rays and related synchrotron sources and applications in materials, physics, medicine, environment/geology, and biomedical materials

XAFS Techniques for Catalysts, Nanomaterials, and Surfaces Yasuhiro Iwasawa 2016-10-19 This book is a comprehensive, theoretical, practical, and thorough guide to XAFS spectroscopy. The book addresses XAFS fundamentals such as experiments, theory and data analysis, advanced XAFS methods such as operando XAFS, time-resolved XAFS, spatially resolved XAFS, total-reflection XAFS, high energy resolution XAFS, and practical applications to a variety of catalysts, nanomaterials and surfaces. This book is accessible to a broad audience in academia and industry, and will be a useful guide for researchers entering the subject and graduate students in a wide variety of disciplines.

Transparent Conductive Materials David Levy 2019-04-29 Edited by well-known pioneers in the field, this handbook and ready reference provides a comprehensive overview of transparent conductive materials with a strong application focus. Following an introduction to the materials and recent developments, subsequent chapters discuss the synthesis and characterization as well as the deposition techniques that are commonly used for energy harvesting and light emitting applications. Finally, the book concludes with a look at future technological advances. All-encompassing and up-to-date, this interdisciplinary text runs the gamut from chemistry and materials science to engineering, from academia to industry, and from fundamental challenges to readily available applications.

X-ray Absorption In Bulk And Surfaces - Proceedings Of The International Workshop Garg K B 1994-04-29 These proceedings cover the talks delivered by experts and pioneers on various aspects of this field: theory; principles of the techniques; instrumentation; data analysis; data interpretation and state-of-the-art studies. The volume could serve as a textbook for beginners and future workers in this field as well as a reference book for experienced workers. The emphasis is on the educational aspects of the subject but information on the latest progress is also highlighted.

X-Ray Spectroscopy with Synchrotron Radiation Stephen P. Cramer 2020-11-19 Synchrotron radiation has been a revolutionary and invaluable research tool for a wide range of scientists, including chemists, biologists, physicists, materials scientists, geophysicists. It has also found multidisciplinary applications with problems ranging from archeology through cultural heritage to paleontology. The subject of this book is x-ray spectroscopy using synchrotron radiation, and the target audience is both current and potential users of synchrotron facilities. The first half of the book introduces readers to the fundamentals of storage ring operations, the qualities of the synchrotron radiation produced, the x-ray optics required to transport this radiation, and the detectors used for measurements. The second half of the book describes the important spectroscopic techniques that use synchrotron x-rays, including chapters on x-ray absorption, x-ray fluorescence, resonant and non-resonant inelastic x-ray scattering, nuclear spectroscopies, and x-ray photoemission. A final chapter surveys the exciting developments of free electron laser sources, which promise a second revolution in x-ray science. Thanks to the detailed descriptions in the book, prospective users will be able to quickly begin working with these techniques. Experienced users will find useful summaries, key equations, and exhaustive references to key papers in the field, as well as outlines of the historical developments in the field. Along with plentiful illustrations, this work includes access to supplemental Mathematica notebooks, which can be used for some of the more complex calculations and as a teaching aid. This book should appeal to graduate students, postdoctoral researchers, and senior scientists alike.

Advances in Agronomy 1995-11-14 With eight outstanding reviews on cutting-edge advances in the crop and soil sciences, this volume emphasizes environmental quality and biotechnology. The connections between agricultural practice and environmental impact are addressed in chapters on sewage sludge, dissolved organic matter, and metals and pyrolysis-mass spectrometry of soil organic matter. Also among this collection are reviews on USDA's plant genome project, DNA markers, and peanut genetics and breeding. With this latest volume, *Advances in Agronomy* continues to be recognized as a prolific and first-rate reference by the scientific community. In 1993 *Advances in Agronomy* increased its publication frequency to three volumes per year, and will continue this trend as the breadth of agronomic inquiry and knowledge continues to grow. Key Features * Synchrotron X-ray techniques * USDA plant genome program * Pyrolysis-mass spectrometric analysis of soil organic matter * Dissolved organic carbon and metal sorption by soils * DNA markers in plant breeding * Sewage sludge amended agricultural land * Peanut breeding and genetics * GIS in agricultural systems

Adsorption of Metals by Geomedia Everett Jenne 1998-03-30 Virtually all factors affecting the extent of metal adsorption on geomedia ranging from single minerals to sediments and soils are examined, including the effects of selected anions, competition among metals, pH, metal concentration, loading, variable metal adsorption capacity, ionic strength, hydrogen exchange and stoichiometry, solids concentration, and artifact effects of precipitation.

Surface Structure Determination by LEED and X-rays Wolfgang Moritz 2022-08-25 Discover exciting new developments and applications of LEED and X-ray diffraction, alongside detailed introductory material.

X-ray and Neutron Techniques for Nanomaterials Characterization Challa S.S.R. Kumar 2016-10-13 Fifth volume of a 40 volume series on nanoscience and nanotechnology, edited by the renowned scientist Challa S.S.R. Kumar. This handbook gives a comprehensive overview about X-ray and Neutron Techniques for Nanomaterials Characterization. Modern applications and state-of-the-art techniques are covered and make this volume an essential reading for research scientists in academia and industry.

The Nature of X-Rays and Their Interactions with Matter Joachim Stöhr 2023-06-06 This book gives a comprehensive account of modern x-ray science, based on the use of synchrotron radiation and x-ray-free electron lasers (XFELs). It emphasizes the new capabilities of XFELs which extend the study of matter to the intrinsic timescales associated with the motion of atoms and chemical transformations and give birth to the new field of non-linear x-ray science. Starting with the historical understanding of the puzzling nature of light, it covers the modern description of the creation, properties, and detection of x-rays within quantum optics. It then presents the formulation of the interactions of x-rays with atomic matter, both, from semi-classical and first-principles quantum points of view. The fundamental x-ray processes and techniques, absorption, emission, Thomson, and resonant scattering (REXS and RIXS) are reviewed with emphasis on simple intuitive pictures that are illustrated by experimental results. Concepts of x-ray imaging and diffractive imaging of atomic and nano structures are discussed, and the quantum optics formulation of diffraction is presented that reveals the remarkable quantum substructure of light. The unique power of x-rays in providing atom and chemical-bond specific information and separating charge and spin phenomena through x-ray polarization (dichroism) effects are highlighted. The book concludes with the discussion of many-photon or non-linear x-ray phenomena encountered with XFELs, such as stimulated emission and x-ray transparency.

Methods of Soil Analysis April L. Ulery 2008 The latest installment in the well-received *Methods of Soil Analysis* series, *Methods of Soil Analysis. Part 5. Mineralogical Methods*, presents valuable techniques that will enable researchers to analyze mineralogy for a wide variety of applications. An understanding of mineralogical composition provides crucial insight into the fundamental behavior of soils and their response to environmental conditions and management. Highlights include extensive coverage of new techniques, such as X-ray absorption and diffuse reflectance spectroscopy, and updated chapters on thermal analysis and selective dissolution methodologies.

Each chapter provides the basic principles of the method, guides the reader through the method itself, and finally assists in the interpretation and analysis of results collected.

X-Ray Absorption D. C. Koningsberger 1988-01-18 Describes several specific spectrometric techniques that are very useful in elucidating the fundamental nature of matter: EXAFS--Extended X-Ray Absorption of Fine Structure; SEXAFS--which is EXAFS applied to Surface Phenomena; and XANES--X-Ray Absorption Near Edge Structures. Articles explain the phenomena and describe examples of X-ray absorption applications in several fields, including chemistry, biochemistry, catalysis, amorphous and liquid systems, synchrotron radiation, and surface phenomena.

Contributors explain the underlying theory, how to set up X-ray absorption experiments, and how to analyze the details of the resulting spectra. This volume will be of particular interest to physicists, chemists, biologists, and materials scientists.

XAFS for Everyone Scott Calvin 2013-05-20 XAFS for Everyone provides a practical, thorough guide to x-ray absorption fine-structure (XAFS) spectroscopy for both novices and seasoned practitioners from a range of disciplines. The text is enhanced with more than 200 figures as well as cartoon characters who offer informative commentary on the different approaches used in XAFS spectroscopy. The book covers sample preparation, data reduction, tips and tricks for data collection, fingerprinting, linear combination analysis, principal component analysis, and modeling using theoretical standards. It describes both near-edge (XANES) and extended (EXAFS) applications in detail. Examples throughout the text are drawn from diverse areas, including materials science, environmental science, structural biology, catalysis, nanoscience, chemistry, art, and archaeology. In addition, five case studies from the literature demonstrate the use of XAFS principles and analysis in practice. The text includes derivations and sample calculations to foster a deeper comprehension of the results. Whether you are encountering this technique for the first time or looking to hone your craft, this innovative and engaging book gives you insight on implementing XAFS spectroscopy and interpreting XAFS experiments and results. It helps you understand real-world trade-offs and the reasons behind common rules of thumb.

Applications of Physical Methods to Inorganic and Bioinorganic Chemistry Robert A. Scott 2013-02-19 Modern spectroscopic and instrumental techniques are essential to the practice of inorganic and bioinorganic chemistry. This first volume in the new Wiley Encyclopedia of Inorganic Chemistry Methods and Applications Series provides a consistent and comprehensive description of the practical applicability of a large number of techniques to modern problems in inorganic and bioinorganic chemistry. The outcome is a text that provides invaluable guidance and advice for inorganic and bioinorganic chemists to select appropriate techniques, whilst acting as a source to the understanding of these methods. This volume is also available as part of Encyclopedia of Inorganic Chemistry, 5 Volume Set. This set combines all volumes published as EIC Books from 2007 to 2010, representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry.

<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1119994284.html> Find out more/a.

NEXAFS Spectroscopy Joachim Stöhr 2013-04-17 This is the first ever comprehensive treatment of NEXAFS spectroscopy. It is suitable for novice researchers as an introduction to the field, while experts will welcome the detailed description of state-of-the-art instrumentation and analysis techniques, along with the latest experimental and theoretical results.

Catalysis Kiyotaka Asakura 2012 There is an increasing need to find cost-effective and environmentally sound methods of converting natural resources into fuels, chemicals and energy; catalysts are pivotal to such processes. Catalysis highlights major developments in this area. Coverage of this Specialist Periodical Report includes all major areas of heterogeneous catalysis. In each volume, specific areas of current interest are reviewed. Examples of topics include experimental methods, acid/base catalysis, materials synthesis, environmental catalysis, and syngas conversion.

Synchrotron Techniques in Interfacial Electrochemistry C.A. Melendres 2013-03-09 Proceedings of the NATO Advanced Research Workshop, Funchal, Madeira, Portugal, December 14-

-18, 1992

EXAFS: Basic Principles and Data Analysis Boon K. Teo 2012-12-06 The phenomenon of Extended X-Ray Absorption Fine Structure (EXAFS) has been known for some time and was first treated theoretically by Kronig in the 1930s. Recent developments, initiated by Sayers, Stern, and Lytle in the early 1970s, have led to the recognition of the structural content of this technique. At the same time, the availability of synchrotron radiation has greatly improved both the acquisition and the quality of the EXAFS data over those obtainable from conventional X-ray sources. Such developments have established EXAFS as a powerful tool for structure studies. EXAFS has been successfully applied to a wide range of significant scientific and technological systems in many diverse fields such as inorganic chemistry, biochemistry, catalysis, material sciences, etc. It is extremely useful for systems where single-crystal diffraction techniques are not readily applicable (e.g., gas, liquid, solution, amorphous and polycrystalline solids, surfaces, polymer, etc.). Despite the fact that the EXAFS technique and applications have matured tremendously over the past decade or so, no introductory textbook exists. *EXAFS: Basic Principles and Data Analysis* represents my modest attempt to fill such a gap. In this book, I aim to introduce the subject matter to the novice and to help alleviate the confusion in EXAFS data analysis, which, although becoming more and more routine, is still a rather tricky endeavor and may, at times, discourage the beginners.

Analytical Geomicrobiology Janice P. L. Kenney 2019-07-18 A comprehensive handbook outlining state-of-the-art analytical techniques used in geomicrobiology, for advanced students, researchers and professional scientists.

X-ray Characterization of Materials Eric Lifshin 2008-07-11 Linking of materials properties with microstructures is a fundamental theme in materials science, for which a detailed knowledge of the modern characterization techniques is essential. Since modern materials such as high-temperature alloys, engineering thermoplastics and multilayer semiconductor films have many elemental constituents distributed in more than one phase, characterization is essential to the systematic development of such new materials and understanding how they behave in practical applications. X-ray techniques play a major role in providing information on the elemental composition and crystal and grain structures of all types of materials. The challenge to the materials characterization expert is to understand how specific instruments and analytical techniques can provide detailed information about what makes each material unique. The challenge to the materials scientist, chemist, or engineer is to know what information is needed to fully characterize each material and how to use this information to explain its behavior, develop new and improved properties, reduce costs, or ensure compliance with regulatory requirements. This comprehensive handbook presents all the necessary background to understand the applications of X-ray analysis to materials characterization with particular attention to the modern approach to these methods.

Non-destructive Micro Analysis of Cultural Heritage Materials K. Janssens 2004-11-26 This book provides the scientific and technical background materials of non-destructive methods of microscopic analysis that are suitable for analysing works of art, museum pieces and archaeological artefacts. Written by experts in the field, this multi-author volume contains a number of case studies, illustrating the value of these methods. The book is suited to natural scientists and analysts looking to increase their knowledge of the various methods that are currently available for non-destructive analysis. It is also the perfect resource for museum curators, archaeologists and art-historians seeking to identify one or more suitable methods of analysis that could solve material-related problems.

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