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X-Ray Diffraction Crystallography

Introduction, Examples and
Solved Problems

 Springer

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X-Ray Diffraction Crystallography Yoshio Waseda, Eiichiro Matsubara, Kozo Shinoda, 2011-03-18 X ray diffraction crystallography for powder samples is a well established and widely used method It is applied to materials characterization to reveal the atomic scale structure of various substances in a variety of states The book deals with fundamental properties of X rays geometry analysis of crystals X ray scattering and diffraction in polycrystalline samples and its application to the determination of the crystal structure The reciprocal lattice and integrated diffraction intensity from crystals and symmetry analysis of crystals are explained To learn the method of X ray diffraction crystallography well and to be able to cope with the given subject a certain number of exercises is presented in the book to calculate specific values for typical examples This is particularly important for beginners in X ray diffraction crystallography One aim of this book is to offer guidance to solving the problems of 90 typical substances For further convenience 100 supplementary exercises are also provided with solutions Some essential points with basic equations are summarized in each chapter together with some relevant physical constants and the atomic scattering factors of the elements

X-Ray Diffraction Crystallography Yoshio Waseda, Eiichiro Matsubara, Kozo Shinoda, 2011-03-30

X-Ray Diffraction Crystallography: Introduction, Examples and Solved Problems Yoshio Waseda, **High Entropy Alloys** T.S. Srivatsan, Manoj Gupta, 2020-07-20 This book provides a cohesive overview of innovations advances in processing and characterization and applications for high entropy alloys HEAs in performance critical and non performance critical sectors It covers manufacturing and processing advanced characterization and analysis techniques and evaluation of mechanical and physical properties With chapters authored by a team of internationally renowned experts the volume includes discussions on high entropy thermoelectric materials corrosion and thermal behavior of HEAs improving fracture resistance fatigue properties and high tensile strength of HEAs HEA films and more This work will be of interest to academics scientists engineers technologists and entrepreneurs working in the field of materials and metals development for advanced applications Features Addresses a broad spectrum of HEAs and related aspects including manufacturing processing characterization and properties Emphasizes the application of HEAs Aimed at researchers engineers and scientists working to develop materials for advanced applications T S Srivatsan PhD Professor of Materials Science and Engineering in the Department of Mechanical Engineering at the University of Akron Ohio USA earned his MS in Aerospace Engineering in 1981 and his PhD in Mechanical Engineering in 1984 from the Georgia Institute of Technology USA He has authored or edited 65 books delivered over 200 technical presentations and authored or co authored more than 700 archival publications in journals book chapters book reviews proceedings of conferences and technical reports His RG score is 45 with a h index of 53 and Google Scholar citations of 9000 ranking him to be among the top 2% of researchers in the world He is a Fellow of i the American Society for Materials International ii the American Society of Mechanical Engineers and iii the American Association for Advancement of Science Manoj Gupta PhD is Associate

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Phase Transformation in Metals Nestor Perez, 2020-09-25 This textbook explains the physics of phase transformation and associated constraints from a metallurgical or materials science point of view based on many topics including crystallography mass transport by diffusion thermodynamics heat transfer and related temperature gradients thermal deformation and even fracture mechanics The work presented emphasizes solidification and related analytical models based on heat transfer This corresponds with the most fundamental physical event of continuous evolution of latent heat of fusion for directional or non directional liquid to solid phase transformation at a specific interface with a certain geometrical shape such as planar or curved front Dr Perez introduces mathematical and engineering approximation schemes for describing the phase transformation mainly during solidification of pure metals and alloys Giving clear definitions and explanations of theoretical concepts and full detail of derivation of formulae this interdisciplinary volume is ideal for graduate and upper level undergraduate students in applied science and professionals in the metal making and surface reconstruction industries

Electrochemical Storage Materials Dirk C. Meyer, Tilmann Leisegang, Matthias Zschornak, Hartmut Stöcker, 2018-12-17 This work gives a comprehensive overview on materials processes and technological challenges for electrochemical storage and conversion of energy Optimization and development of electrochemical cells requires consideration of the cell as a whole taking into account the complex interplay of all individual components Considering the availability of resources their environmental impact and requirements for recycling the design of new concepts has to be based on the understanding of relevant processes at an atomic level

Materials Science: Theory and Engineering Nestor Perez, 2024-08-01 This textbook presents a compilation of class tested materials and the results of research on a range of topics in into one comprehensive volume for readers engaged in the materials science and engineering aspects of phase transformation in metals Accordingly this is a suitable textbook for undergraduate and graduate students in the fields of mechanical engineering materials science metallurgical engineering and related disciplines The book incorporates two dimensional materials crystal defects mass transport thermodynamics of phase solidification heat transfer solidification and phase diagrams related to nucleation particle phases and explains solid state phase transformation mechanical behaviour and fracture toughness non destructive methods physical and optical properties of solids and electrochemical corrosion It also stands as an excellent reference treatise for practicing and consulting engineers Moreover the book is appropriate for

graduate level coursework covering advanced subjects including quantum mechanics two dimensional materials fracture mechanics non destructive methods for evaluating structural integrity and advanced analytical techniques in some appendices

Handbook on Characterization of Biomass, Biowaste and Related By-products Ange

Nzihou,2020-02-17 This book provides authoritative information techniques and data necessary for the appropriate understanding of biomass and biowaste understood as contaminated biomass composition and behaviour while processed in various conditions and technologies Numerous techniques for characterizing biomass biowaste and by product streams exist in literature However there lacks a reference book where these techniques are gathered in a single book although such information is in increasingly high demand This handbook provides a wealth of characterization methods protocols standards databases and references relevant to various biomass biowaste materials and by products It specifically addresses sampling and preconditioning methods extraction techniques of elements and molecules as well as biochemical mechanical and thermal characterization methods Furthermore advanced and innovative methods under development are highlighted The characterization will allow the analysis identification and quantification of molecules and species including biomass feedstocks and related conversion products The characterization will also provide insight into physical mechanical and thermal properties of biomass and biowaste as well as the resulting by products

Environmental Trace Analysis John R.

Dean,2013-10-10 This book covers all aspects of environmental trace analysis from sampling through to preparation of the sample to the analytical techniques used to quantify the level of trace metals or organic compounds The book is divided into two areas sample preparation for inorganic analysis and sample preparation for organic analysis This allows the reader to focus on key aspects related to the preparation of samples for their subsequent analysis Selected case studies provide the reader with the opportunity to consider how the sample preparation approach can be optimized for their own area of expertise

Functionalized Nanoclays Shadpour Mallakpour,Chaudhery Mustansar Hussain,2024-11-29 Functionalized

Nanoclays Synthesis and Design for Industrial Applications presents a thorough and in depth overview of functionalized nanoclays from an introductory presentation of different nanoclays and their characterization to their properties synthesis fabrication methods and applications in various industries This book begins with an introduction to functionalized nanoclays and their composites followed by sections dedicated to theoretical aspects and material synthesis Subsequent chapters cover a broad range of industrial applications including pollution remediation sensing drug delivery food packaging and much more The following section discusses recent progress in commercialization and standardization for functionalized nanoclays at both experimental and theoretical model scales The final chapter presents research advances and future perspective for functionalized nanoclays as a replacement for traditional materials in diverse applications Details the major aspects necessary for functionalized nanoclays including characterization selection synthesis and fabrication methods Outlines present challenges and future possibilities for innovative industrial applications Discusses recent progress in

commercialization for functionalized nanoclays at both experimental and theoretical basis **Materials Chemistry** Bradley D. Fahlman, 2018-08-28 The 3rd edition of this successful textbook continues to build on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association TAA Materials Chemistry addresses inorganic organic and nano based materials from a structure vs property treatment providing a suitable breadth and depth coverage of the rapidly evolving materials field in a concise format The 3rd edition offers significant updates throughout with expanded sections on sustainability energy storage metal organic frameworks solid electrolytes solvothermal microwave syntheses integrated circuits and nanotoxicity Most appropriate for Junior Senior undergraduate students as well as first year graduate students in chemistry physics or engineering fields Materials Chemistry may also serve as a valuable reference to industrial researchers Each chapter concludes with a section that describes important materials applications and an updated list of thought provoking questions

X-Ray Scattering Techniques for Epitaxial Oxide Thin Films Daniel Sando, Paul G. Evans, Nagarajan Valanoor, 2025-09-12 This book acts as a handbook on the topic of x ray scattering as applied to epitaxial complex oxide films providing detailed information to collect the data how to analyze the data and the practical sides of the experiments The first chapter considers laboratory based X ray diffraction XRD methods the indispensable X ray characterization methods used for phase analysis epitaxial relationship determination advanced analytical and data fitting techniques and grazing incidence diffraction The subsequent chapters focus on advanced techniques that are typically performed at large scale facilities such as synchrotrons diffuse scattering and strain mapping coherent X ray methods magnetic X ray scattering and dichroism effects and pump probe techniques In addition detailed characterization methods for complex structures such as oxide superlattices the measurement of oxygen octahedra rotations and probing of domain arrangements are covered The overarching aim of the book is to provide a tutorial style approach to assist experimentalists actually carrying out their experiments and data analysis For instance the nitty gritty techniques of alignment and experimental setup along with common mistakes and pitfalls are often not discussed in textbooks or instruction manuals The book is an invaluable tool for the wide range of researchers working globally on oxide electronics serves as a reference text for the many and varied techniques applied to such materials systems and showcases new advanced methods in x ray scattering

Advanced Materials Characterization Ch Sateesh Kumar, M. Muralidhar Singh, Ram Krishna, 2023-05-04 The book covers various methods of characterization of advanced materials commonly used in engineering including understanding of the working principle and applicability of devices It explores the techniques implemented for advanced materials like superalloys thin films powders nanocomposites polymers shape memory alloys high entropy alloys and so on Major instruments covered include X ray diffraction near field scanning optical microscopy Raman X ray photospectroscopy ultraviolet visible near infrared spectrophotometer Fourier transform infrared spectroscopy differential scanning calorimeter profilometer and thermogravimetric analysis Features Covers material characterization techniques and the

development of advanced characterization technology Includes multiple length scale characterization approaches for a large variety of materials from nano to micron scale as well as their constraints Discusses advanced material characterization technology in the microstructural and property characterization fields Reviews both practical and theoretical explanations of approaches for characterizing microstructure and properties Offers fundamentals basic instrumentation details experimental approaches analyses and applications with case studies This book is aimed at graduate students and researchers in materials science and engineering

Understanding Surface and Thin Film Science Thomas M. Christensen, 2022-12-08 This book is a conceptual overview of surface and thin film science providing a basic and straightforward understanding of the most common ideas and methods used in these fields Fundamental scientific ideas deposition methods and characterization methods are all examined Relying on simple conceptual models and figures fundamental scientific ideas are introduced and then applied to surfaces and thin films in the first half of the book Topics include vacuum and plasma environments crystal structure atomic motion thermodynamics electrical and magnetic properties optical and thermal properties and adsorbed atoms on surfaces Common methods of gas phase thin film deposition are then introduced starting with an overview of the film growth process and then a discussion of both physical and chemical vapor deposition methods This is followed by an overview of a wide range of characterization techniques including imaging structural chemical electrical magnetic optical thermal and mechanical techniques Thin film science is a natural extension of surface science especially as applications involve thinner and thinner films distinct from other literature in the field this book combines the two topics in a single volume Simple conceptual models and figures are used supported by some mathematical expressions to convey key ideas to students as well as practicing engineers scientists and technicians

Industrial Crystallization Gerard Capellades, Fredrik L. Nordstrom, 2025-06-12 The goal of this primer is to introduce crystallization to newcomers in the field with three primary readers in mind 1 new graduate students starting a crystallization project 2 scientists in industry who may be familiar with general chemistry and or crystallography and want to get an introduction to the topics behind crystallizer design and 3 students taking a crystallization elective course or a crystallization module in a broader separations course Contrary to a textbook or review article this is a digital primer where the authors prioritize simplicity over completeness and breadth over depth Each chapter in the primer contains selected references such as Read These Next for those who wish to dive deeper into a specific topic Crystallization can be found in multiple areas within materials design and separations The product of a crystallization step may be a single crystal or a powder It may be composed of small organic molecules inorganic salts biological molecules or single elements Similarly it may have been crystallized from its molten state or pre dissolved in an appropriate solvent and then crystallized via e g cooling antisolvent addition a chemical reaction or solvent evaporation Each of these combinations may be their field of research requiring very different approaches and considerations that warrant their primers This primer focuses on solvent mediated crystallization as a separation process often called solution

crystallization with solid liquid suspensions being the main product Crystallographic Texture and Group Representations
Chi-Sing Man, 2023-01-13 This book starts with an introduction to quantitative texture analysis QTA which adopts conventions active rotations definition of Euler angles Wigner D functions that conform to those of the present day mathematics and physics literature Basic concepts e g orientation orientation distribution function ODF orientation density function and their relationship are made precise through their mathematical definition Parts II and III delve deeper into the mathematical foundations of QTA where the important role played by group representations is emphasized Part II includes one chapter on generalized QTA based on the orthogonal group and Part III one on tensorial Fourier expansion of the ODF and tensorial texture coefficients This work will appeal to students and practitioners who appreciate a precise presentation of QTA through a unifying mathematical language and to researchers who are interested in applications of group representations to texture analysis Previously published in the Journal of Elasticity Volume 149 issues 1 2 April 2022

Photocatalytic Semiconductors Aracely Hernández-Ramírez, Iliana Medina-Ramírez, 2014-11-17 This critical volume examines the different methods used for the synthesis of a great number of photocatalysts including TiO₂ ZnO and other modified semiconductors as well as characterization techniques used for determining the optical structural and morphological properties of the semiconducting materials Additionally the authors discuss photoelectrochemical methods for determining the light activity of the photocatalytic semiconductors by means of measurement of properties such as band gap energy flat band potential and kinetics of hole and electron transfer Photocatalytic Semiconductors Synthesis Characterization and Environmental Applications provide an overview of the semiconductor materials from first to third generation photocatalysts and their applications in wastewater treatment and water disinfection The book further presents economic and toxicological aspects in the production and application of photocatalytic materials *Metallic Nanostructures*

Yujie Xiong, Xianmao Lu, 2014-10-31 This book details the design for creation of metal nanomaterials with optimal functionality for specific applications The authors describe how to make desired metal nanomaterials in a wet lab They include an overview of applications metal nanomaterials can be implemented in and address the fundamentals in the controlled synthesis of metal nanostructures **Dynamics of Glassy, Crystalline and Liquid Ionic Conductors** Junko Habasaki, Carlos Leon, K.L. Ngai, 2016-10-19 This book discusses the physics of the dynamics of ions in various ionically conducting materials and applications including electrical energy generation and storage The experimental techniques for measurements and characterization molecular dynamics simulations the theories of ion dynamics and applications are all addressed by the authors who are experts in their fields The experimental techniques of measurement and characterization of dynamics of ions in glassy crystalline and liquid ionic conductors are introduced with the dual purpose of introducing the reader to the experimental activities of the field and preparing the reader to understand the physical quantities derived from experiments These experimental techniques include calorimetry conductivity relaxation nuclear magnetic resonance light

scattering neutron scattering and others Methods of molecular dynamics simulations are introduced to teach the reader to utilize the technique for practical applications to specific problems The results elucidate the dynamics of ions on some issues that are not accessible by experiments The properties of ion dynamics in glassy crystalline and liquid ionic conductors brought forth by experiments and simulations are shown to be universal i e independent of physical and chemical structure of the ionic conductor as long as ion ion interaction is the dominant factor Moreover these universal properties of ion dynamics are shown to be isomorphic to other complex interacting systems including the large class of glass forming materials with or without ionic conductivity By covering the basic concepts theories models experimental techniques and data molecular dynamics simulations and relating them together Dynamics of Glassy Crystalline and Liquid Ionic Conductors will be of great interest to many in basic and applied research areas from the broad and diverse communities of condensed matter physicists chemists materials scientists and engineers The book also provides the fundamentals for an introduction to the field and it is written in such a way that can be used for teaching courses either at the undergraduate or graduate level in academic institutions

Nanocomposite Manufacturing Technologies Alokesh Pramanik, Animesh Basak, Yu Dong, Chander Prakash, J. Paulo Davim, 2025-01-27 Nanocomposite Manufacturing Technologies provides the latest research in innovative manufacturing methods to produce nanocomposite materials for a range of applications Nanocomposite material research has advanced rapidly in the past decade revealing important insights into the nature of fiber or particle reinforcements on a nanoscale unique properties and specific new generation uses Emerging techniques such as additive manufacturing friction stir processing and rapid prototyping are opening a new era for nanocomposite manufacturing and this comes with certain challenges This book collates the most important of related research findings into a single volume and presents them alongside the latest advances in manufacturing technology to provide a coherent resource for students researchers and industrial R D staff to navigate this field Detailed descriptions of nanocomposite manufacturing processes help readers to understand the differences between them and to choose which process or combination of processes will lead to the material that solves a specific design challenge and advances product development Covers a wide range of applications in different industries Describes novel methods for fabrication of nanocomposite materials such as additive manufacturing friction stir processing and rapid prototyping Provides a detailed fundamental understanding of key parameters for the improvement of processability morphology and properties in nanocomposites

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