

David J. Larson · Ty J. Prosa
Robert M. Ulfing · Brian P. Geller
Thomas E. Kelly

Local Electrode Atom Probe Tomography

A User's Guide

Foreword by
Professor Sir Colin J. Humphreys

 Springer

Local Electrode Atom Probe Tomography A Users Guide

**David J. Larson, Ty J. Prosa, Robert M.
Ulfig, Brian P. Geiser, Thomas F. Kelly**



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Local Electrode Atom Probe Tomography David J. Larson, Ty J. Prosa, Robert M. Ulfig, Brian P. Geiser, Thomas F. Kelly, 2013-12-12 This book is the first single source guide to successful experiments using the local electrode atom probe LEAP microscope Coverage is both comprehensive and user friendly including the fundamentals of preparing specimens for the microscope from a variety of materials the details of the instrumentation used in data collection the parameters under which optimal data are collected the current methods of data reconstruction and selected methods of data analysis Tricks of the trade are described that are often learned only through trial and error allowing users to succeed much more quickly in the challenging areas of specimen preparation and data collection A closing chapter on applications presents selected state of the art results using the LEAP microscope

Local Electrode Atom Probe Tomography David J. Larson, Ty J. Prosa, Robert M. Ulfig, 2013-12-31

Atom Probe Tomography Williams Lefebvre, Francois Vurpillot, Xavier Sauvage, 2016-05-30 Atom Probe Tomography is aimed at beginners and researchers interested in expanding their expertise in this area It provides the theoretical background and practical information necessary to investigate how materials work using atom probe microscopy techniques and includes detailed explanations of the fundamentals the instrumentation contemporary specimen preparation techniques and experimental details as well as an overview of the results that can be obtained The book emphasizes processes for assessing data quality and the proper implementation of advanced data mining algorithms For those more experienced in the technique this book will serve as a single comprehensive source of indispensable reference information tables and techniques Both beginner and expert will value the way the book is set out in the context of materials science and engineering In addition its references to key research outcomes based upon the training program held at the University of Rouen one of the leading scientific research centers exploring the various aspects of the instrument will further enhance understanding and the learning process Provides an introduction to the capabilities and limitations of atom probe tomography when analyzing materials Written for both experienced researchers and new users Includes exercises along with corrections for users to practice the techniques discussed Contains coverage of more advanced and less widespread techniques such as correlative APT and STEM microscopy

Springer Handbook of Microscopy Peter W. Hawkes, John C.H. Spence, 2019-11-02 This book features reviews by leading experts on the methods and applications of modern forms of microscopy The recent awards of Nobel Prizes awarded for super resolution optical microscopy and cryo electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies Earlier Nobel Prizes for electron microscopy the instrument itself and applications to biology scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science from the study of nanostructures in materials science physics and chemistry to structural biology Separate chapters are devoted to confocal fluorescent and related novel optical microscopies coherent diffractive imaging scanning probe microscopy transmission electron microscopy in all its modes from aberration corrected

and analytical to in situ and time resolved low energy electron microscopy photoelectron microscopy cryo electron microscopy in biology and also ion microscopy In addition to serving as an essential reference for researchers and teachers in the fields such as materials science condensed matter physics solid state chemistry structural biology and the molecular sciences generally the Springer Handbook of Microscopy is a unified coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy

Atomic-Scale Analytical Tomography Thomas F. Kelly, Brian P. Gorman, Simon P. Ringer, 2022-03-24 A comprehensive guide on Atomic Scale Analytical Tomography ASAT that discusses basic concepts and implications of the technique in areas such as material sciences microscopy engineering sciences and several interdisciplinary avenues The title interrogates how to successfully achieve ASAT at the intersection of transmission electron microscopy and atom probe microscopy This novel concept is capable of identifying individual atoms in large volumes as well as in 3D with high spatial resolution Written by leading experts from academia and industry this book serves as a guide with real world applications on cutting edge research problems An essential reading for researchers engineers and practitioners interested in nanoscale characterisation this book introduces the reader to a new direction for atomic scale microscopy

Microstructural Geochronology Desmond E. Moser, Fernando Corfu, James R. Darling, Steven M. Reddy, Kimberly Tait, 2017-11-17 Microstructural Geochronology Geochronology techniques enable the study of geological evolution and environmental change over time This volume integrates two aspects of geochronology one based on classical methods of orientation and spatial patterns and the other on ratios of radioactive isotopes and their decay products The chapters illustrate how material science techniques are taking this field to the atomic scale enabling us to image the chemical and structural record of mineral lattice growth and deformation and sometimes the patterns of radioactive parent and daughter atoms themselves to generate a microstructural geochronology from some of the most resilient materials in the solar system First compilation of research focusing on the crystal structure material properties and chemical zoning of the geochronology mineral archive down to nanoscale Novel comparisons of mineral time archives from different rocky planets and asteroids and their shock metamorphic histories Fundamentals on how to reconstruct and date radiogenic isotope distributions using atom probe tomography Microstructural Geochronology will be a valuable resource for graduate students academics and researchers in the fields of petrology geochronology mineralogy geochemistry planetary geology astrobiology chemistry and material science It will also appeal to philosophers and historians of science from other disciplines

Microscopy and Microanalysis for Lithium-Ion Batteries Cai Shen, 2023-05-26 The past three decades have witnessed the great success of lithium ion batteries especially in the areas of 3C products electrical vehicles and smart grid applications However further optimization of the energy power density coulombic efficiency cycle life charge speed and environmental adaptability are still needed To address these issues a thorough understanding of the reaction inside a battery or dynamic evolution of each component is required Microscopy and

Microanalysis for Lithium Ion Batteries discusses advanced analytical techniques that offer the capability of resolving the structure and chemistry at an atomic resolution to further drive lithium ion battery research and development Provides comprehensive techniques that probe the fundamentals of Li ion batteries Covers the basic principles of the techniques involved as well as its application in battery research Describes details of experimental setups and procedure for successful experiments This reference is aimed at researchers engineers and scientists studying lithium ion batteries including chemical materials and electrical engineers as well as chemists and physicists Nanoinformatics Isao Tanaka,2018-01-15 This open access book brings out the state of the art on how informatics based tools are used and expected to be used in nanomaterials research There has been great progress in the area in which big data generated by experiments or computations are fully utilized to accelerate discovery of new materials key factors and design rules Data intensive approaches play indispensable roles in advanced materials characterization Materials informatics is the central paradigm in the new trend Nanoinformatics is its essential subset which focuses on nanostructures of materials such as surfaces interfaces dopants and point defects playing a critical role in determining materials properties There have been significant advances in experimental and computational techniques to characterize individual atoms in nanostructures and to gain quantitative information The collaboration of researchers in materials science and information science is growing actively and is creating a new trend in materials science and engineering **2017 MATRIX Annals** Jan de Gier,Cheryl E. Praeger,Terence Tao,2019-03-13 MATRIX is Australia s international and residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1 4 weeks in duration This book is a scientific record of the eight programs held at MATRIX in its second year 2017 Hypergeometric Motives and Calabi Yau Differential Equations Computational Inverse Problems Integrability in Low Dimensional Quantum Systems Elliptic Partial Differential Equations of Second Order Celebrating 40 Years of Gilbarg and Trudinger s Book Combinatorics Statistical Mechanics and Conformal Field Theory Mathematics of Risk Tutte Centenary Retreat Geometric R Matrices from Geometry to Probability The articles are grouped into peer reviewed contributions and other contributions The peer reviewed articles present original results or reviews on a topic related to the MATRIX program the remaining contributions are predominantly lecture notes or short articles based on talks or activities at MATRIX **Proceedings of the 13th World Conference on Titanium** Vasisht Venkatesh,Adam L. Pilchak,John E. Allison,Sreeramamurthy Ankem,Rodney R. Boyer,Julie Christodoulou,Hamish L. Fraser,M. Ashraf Imam,Yoji Kosaka,Henry J. Rack,Amit Chatterjee,Andy Woodfield,2016-04-26 This book contains the Proceedings of the 13th World Conference on Titanium *Nano-Engineering of High Strength Steels* Wenwen Song,2024-01-03 This book offers new insights into the process of adjusting nanostructures in high strength steels to achieve enhanced mechanical properties It summarizes the state of the art nanoengineering approaches such as precipitation engineering interface engineering and short range ordering engineering The book explores the nanostructure process property relationships in

various high strength steels including TRIP TWIP MBIP in high Mn steels HMnS medium Mn steels MMnS bearing steels tool steels and more The author investigates a novel approach to control the phase transformation process during deformation and or thermal treatment in steels employing both experimental and theoretical tools *Wide Bandgap Semiconductor Electronics And Devices* Uttam Singisetti,Towhidur Razzak,Yuewei Zhang,2019-12-10 This book is more suited for researchers already familiar with WBS who are interested in developing new WBG materials and devices since it provides the latest developments in new materials and processes and trends for WBS and UWBS technology IEEE Electrical Insulation Magazine With the dawn of Gallium Oxide Ga₂O and Aluminum Gallium Nitride AlGa_N electronics and the commercialization of Gallium Nitride Ga_N and Silicon Carbide SiC based devices the field of wide bandgap materials and electronics has never been more vibrant and exciting than it is now Wide bandgap semiconductors have had a strong presence in the research and development arena for many years Recently the increasing demand for high efficiency power electronics and high speed communication electronics together with the maturity of the synthesis and fabrication of wide bandgap semiconductors has catapulted wide bandgap electronics and optoelectronics into the mainstream Wide bandgap semiconductors exhibit excellent material properties which can potentially enable power device operation at higher efficiency higher temperatures voltages and higher switching speeds than current Si technology This edited volume will serve as a useful reference for researchers in this field newcomers and experienced alike This book discusses a broad range of topics including fundamental transport studies growth of high quality films advanced materials characterization device modeling high frequency high voltage electronic devices and optical devices written by the experts in their respective fields They also span the whole spectrum of wide bandgap materials including AlGa_N Ga₂O and diamond *Scientific and Technical Aerospace Reports*,1992 **Atomic-Scale Analytical Tomography** Thomas F. Kelly,Brian P. Gorman,Simon P. Ringer,2022-03-24 The first comprehensive guide on Atomic Scale Analytical Tomography extending basics to the future implications for science and technology **Atom Probe Tomography** Simon P. Ringer,2007 **Numeric Simulation of Atom Probe Tomography** Christian Oberdorfer,2014 *Analysis Techniques in Atom Probe Tomography* Anna Vallarta Ceguerra,2011

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