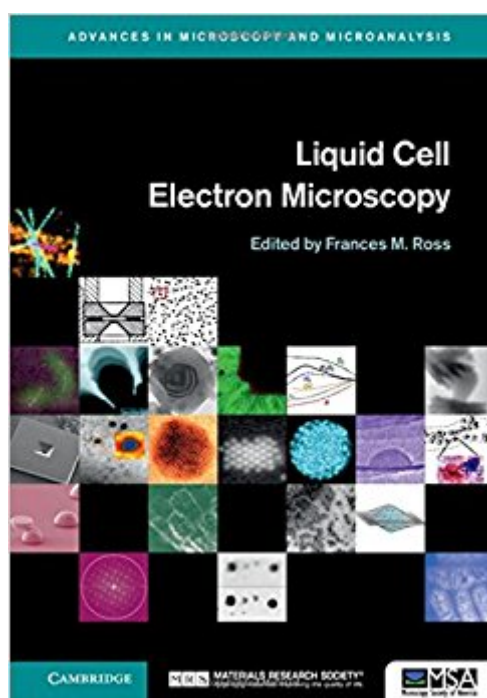


The book was found

Liquid Cell Electron Microscopy (Advances In Microscopy And Microanalysis)



Synopsis

The first book on the topic, with each chapter written by pioneers in the field, this essential resource details the fundamental theory, applications, and future developments of liquid cell electron microscopy. This book describes the techniques that have been developed to image liquids in both transmission and scanning electron microscopes, including general strategies for examining liquids, closed and open cell electron microscopy, experimental design, resolution, and electron beam effects. A wealth of practical guidance is provided, and applications are described in areas such as electrochemistry, corrosion and batteries, nanocrystal growth, biomineralization, biomaterials and biological processes, beam-induced processing, and fluid physics. The book also looks ahead to the future development of the technique, discussing technical advances that will enable higher resolution, analytical microscopy, and even holography of liquid samples. This is essential reading for researchers and practitioners alike.

Book Information

Series: Advances in Microscopy and Microanalysis

Hardcover: 524 pages

Publisher: Cambridge University Press; 1 edition (January 16, 2017)

Language: English

ISBN-10: 1107116570

ISBN-13: 978-1107116573

Product Dimensions: 6.8 x 1 x 9.7 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,280,349 in Books (See Top 100 in Books) #34 in Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #1344 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science #14832 in Books > Science & Math > Physics

Customer Reviews

The first book on the topic and written by pioneers in the field, this is essential reading for researchers and practitioners. It covers the fundamental theory, applications, and future developments of liquid cell electron microscopy, describing techniques in detail and providing practical examples from a wide range of scientific disciplines.

Frances M. Ross is based at IBM's T. J. Watson Research Center, where she has built a program around a microscope with deposition and focused ion beam capabilities, and developed closed liquid cell microscopy to image electrochemical processes. Previously she worked at the National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, and has also been a Visiting Scientist at Lunds Universitet, Sweden and an Adjunct Professor at Arizona State University. She received the UK Institute of Physics Boys Medal, the MRS Outstanding Young Investigator Award and the MSA Burton Medal, holds an Honorary Doctorate from Lunds Universitet, and is a Fellow of the American Physical Society, the American Association for the Advancement of Science, the Materials Research Society, the Microscopy Society of America and the American Vacuum Society.

[Download to continue reading...](#)

Liquid Cell Electron Microscopy (Advances in Microscopy and Microanalysis) Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Monte Carlo Modeling for Electron Microscopy and Microanalysis (Oxford Series in Optical and Imaging Sciences) Scanning Electron Microscopy and X-Ray Microanalysis: A Text for Biologists, Materials Scientists, and Geologists Scanning Electron Microscopy and X-ray Microanalysis: Third Edition Scanning Electron Microscopy and X-Ray Microanalysis Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis Transmission Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences,) Scanning Electron Microscopy: Physics of Image Formation and Microanalysis (Springer Series in Optical Sciences) E-Juice Recipes: Shake and Vape E-Liquid Recipes For Your Electronic Cigarette, E-Hookah G-Pen: Quick and tasty E-liquid recipes that you can enjoy today. ... E-liquid recipes for DIY E-juicers. Book 3) Electron Microprobe Analysis and Scanning Electron Microscopy in Geology Electron Diffraction in the Transmission Electron Microscope (Microscopy Handbooks) Correlative Light and Electron Microscopy II, Volume 124 (Methods in Cell Biology) Liquid Soapmaking: Tips, Techniques and Recipes for Creating All Manner of Liquid and Soft Soap Naturally! High Energy Electron Diffraction and Microscopy (Monographs on the Physics and Chemistry of Materials) Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique Scanning and Transmission Electron Microscopy: An Introduction Fungal morphology and ecology: Mostly scanning electron microscopy Electron Microscopy and Analysis, Third Edition

Contact Us

DMCA

Privacy

FAQ & Help