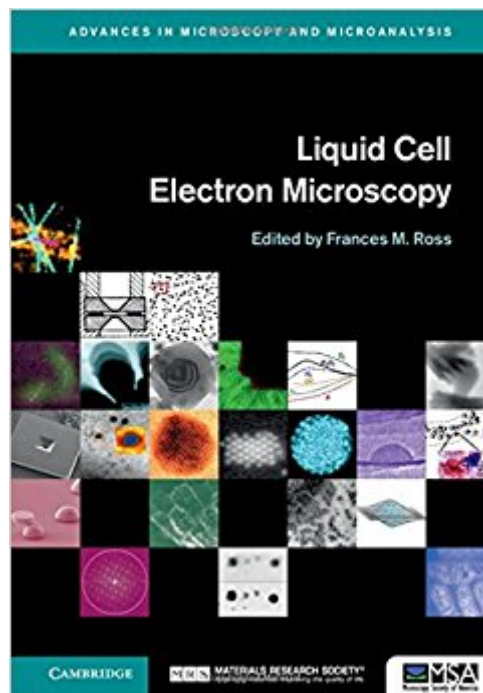




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Liquid Cell Electron Microscopy (Advances In Microscopy And Microanalysis)



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

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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.

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