

Scanning Electrochemical Microscopy

Because of its simplicity of use and quantitative results, Scanning Electrochemical Microscopy (SECM) has become an indispensable tool for the study of surface reactivity. The fast expansion of the SECM field over several years has been fueled by the introduction of new probes, commercially available instrumentation, and new practical applications. Scanning Electrochemical Microscopy, Third Edition offers essential background and in-depth overviews of specific applications in self-contained chapters. The vitality and growing popularity of SECM over the past 30+ years have largely been determined by its versatility and capability to remain useful in the changing scientific and technological environments. New applications reported during the last decade reflect significant current activity in biomedical and energy-related research. This thoroughly updated edition provides up-to-date comprehensive reviews of different aspects of SECM. New chapters by renowned professionals in the field cover recent advances in different areas of SECM including nanoSECM, surface reactions and films, batteries, and fuel cells. Expanded coverage of electrocatalysis and surface interrogation as well as photoelectrochemistry and photoelectrocatalysis are also provided. Useful for a broad range of interdisciplinary research—from biological systems to nanopatterning—this book is invaluable to all interested in learning and applying SECM.



Auf Anfrage

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