



Scanning Electrochemical Microscopy, Second Edition

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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 during the last several years has been fueled by the introduction of new probes, commercially available instrumentation, and new practical applications. **Scanning Electrochemical Microscopy, Second Edition** offers essential background and in-depth overviews of specific applications in self-contained chapters.

Recent methodological advances have greatly increased the capacity of SECM to characterize interfaces at the nanoscale and to obtain molecular-level chemical information. This thoroughly updated edition retains original chapters describing the principles of SECM measurements, instrumentation, preparation of SECM probes, imaging methodologies, and theory and offers:

- New chapters on studies of single biological cells, corrosion, electrocatalysis, and hybrid techniques
- Descriptions of recent advances of SECM in several areas of current interest: biotechnological applications, nanofabrication and surface patterning, and molecular transport across films and membranes
- Discussion of the ongoing shift from micrometer-scale experiments to the nanoscale

Useful for a broad range of interdisciplinary research—from biological systems to probing reactions at the liquid–liquid interface—this book is invaluable to all interested in learning and applying SECM.

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