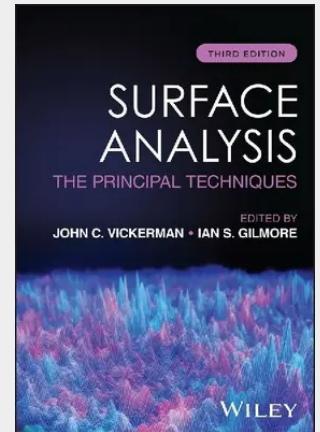


Surface Analysis - The Principal Techniques 3e

The Principal Techniques

Understand the principles and applications of surface analysis Analyzing the composition of a given surface is a crucial aspect of materials and biomedical sciences, with significant bearing on the way a material will interact with a particular environment or mapping molecules in tissue with sub-cellular resolution. Surface analysis draws upon a substantial body of research to analyze the outer few nanometres of a material and buried interface with nanometre resolution. It has considerable significance in laboratories studying corrosion, adhesion, polymer surface treatment, semiconductors, medical devices and drug delivery. Surface Analysis offers a comprehensive and accessible overview of the characterization and analysis of surface and buried layers. It brings together experts in each analysis area to lay out foundational theory, offer practical applications, and provide examples. Now fully up to date and reflecting the latest research, it is a must-own for any scientist incorporating surface analysis into laboratory work. Readers of the third edition of Surface Analysis will also find: - Two new chapters on advanced mass spectrometry methods - Detailed coverage of ever-more-important methods of data analysis - Tools for concretely improving laboratory and research outcomes Surface Analysis is ideal for practitioners and advanced graduate students in materials science, solid state physics, semiconductors, quantum materials, nanotechnology, biological imaging and chemistry.

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