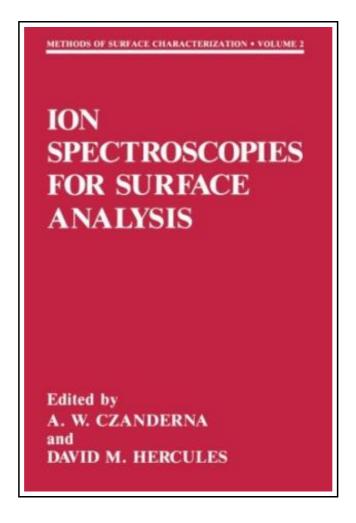
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Book Condition: New. Publisher/Verlag: Springer, Berlin | Determining the elemental composition of surfaces is an essential measurement in characterizing solid surfaces. At present, many ap proaches may be applied for measuring the elemental and molecular composition of a surface. Each method has particular strengths and limitations that often are directly connected to the physical processes involved. Typically, atoms and molecules on the surface and in the near surface region may be excited by photons, electrons, ions, or neutrals, and the detected particles are emitted, ejected, or scattered ions or electrons. The purpose of this book is to bring together a discussion of the surface compositional analysis that depends on detecting scattered or sputtered ions, and the methods emphasized are those where instruments are commercially available for carrying out the analysis. For each topic treated, the physical principles, instrumentation, qualitative analysis, artifacts, quantitative analysis, applications, opportunities, and limita tions are discussed. The first chapter provides an overview of the role of elemental composition in surface science; compositional depth profiling; stimulation by an electric field, electrons, neutrals, or photons and detection of ions; and then stimulation by ions, and detection of ions, electrons, photons, or neutrals. | 1. Overview of Ion Spectroscopies for Surface Compositional Analysis.- Glossary of Acronyms.- 1. Purposes.- 2. Introduction.- 2.1. Role of Surface Analysis in Surface Characterization.- 2.1.1. Surface Area.- 2.1.2. Real and Clean Surfaces; Solid Forms.- 2.1.3. Structure and Topography.- 2.1.4. Surface Thermodynamics, Equilibrium Shape, and Diffusion.- 2.1.5. Amount Adsorbed and Nature of Adsorbate/Solid Interactions.- 2.1.6. Surface Composition or Purity.- 2.2. Surface Atom Density and Ultrahigh Vacuum.- 2.3. Compositional Depth Profiling.- 2.3.1. Sputtering Mechanism, Yield, and Rate.- 2.3.2. Instrumentation.- 2.3.3. Data Obtained and Typical Results.- 3. Overview of Compositional Surface Analysis by Ion Spectroscopies.- 3.1. Effects of Energetic Ion Impact on Surfaces.- 3.2. Stimulation and Detection in...



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