



Methods of Surface Analysis (Methods and Phenomena)

Alvin Warren Czanderna

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Methods of Surface Analysis deals with the determination of the composition of surfaces and the identification of species attached to the surface. The text applies methods of surface analysis to obtain a composition depth profile after various stages of ion etching or sputtering. The composition at the solid—solid interface is revealed by systematically removing atomic planes until the interface of interest is reached, in which the investigator can then determine its composition. The book reviews the effect of ion etching on the results obtained by any method of surface analysis including the effect of the rate of etching, incident energy of the bombarding ion, the properties of the solid, the effect of the ion etching on generating an output signal of electrons, ions, or neutrals. The text also describes the effect of the residual gases in the vacuum environment. The book considers the influence of the sample geometry, of the type (metal, insulator, semiconductor, organic), and of the atomic number can have on surface analysis. The text describes in detail low energy ion scattering spectroscopy, X-ray photoelectron spectroscopy, Auger electron spectroscopy, secondary ion mass spectroscopy, and infrared reflection-absorption spectroscopy. The book can prove useful for researchers, technicians, and scientists whose works involve organic chemistry, analytical chemistry, and other related fields of chemistry, such as physical chemistry or inorganic chemistry.

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