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Surface Analysis Of Polymers By XPS And Static SIMS (Cambridge Solid State Science Series)



Synopsis

This in-depth treatment of the instrumentation, physical bases and applications of x-ray photoelectron spectroscopy (XPS) and static secondary ion mass spectroscopy (SSIMS) contains a specific focus on the subject of polymeric materials. XPS and SSIMS are widely accepted as the two most powerful techniques for polymer surface chemical analysis, particularly in the context of industrial research and problem solving. The author describes the techniques and applications of XPS and SSIMS. He also includes details of case studies, emphasizing the complementary and joint application of XPS and SSIMS in the investigation of polymer surface structure and its relationship to the properties of the material. This book will be of value to academic and industrial researchers interested in polymer surfaces and surface analysis.

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Customer Reviews

"...written by one of those that mostly contributed to the development of the field...valuable to academic and industrial researchers interested to be introduced in the field." Polymer News

The behaviour of polymer and plastic surfaces is critical to a variety of applications of these materials, for example in printing, adhesive bonding, lamination and biomedical applications. This in turn is governed by the chemical structure and composition of the outermost molecular layers. This book describes the instrumentation, physical bases and application of two of the most powerful

techniques for polymer surface chemical analysis to have emerged in the past 25 years. It brings together the present state of knowledge in one book for the first time and is written by a pioneer in the field whose research has been driven by industrial requirements.

This book is an excellent resource for the surface analyst that works with organic and polymeric materials. The treatment of fundamentals and hardware is adequate and appropriate. There are many examples given for polymeric and additive systems, but one would wish for similar treatment for more systems.

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