



Surface Science: An Introduction

John B. Hudson

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A comprehensive, authoritative introduction to the central issues in surface science.

This volume takes a practical, experimental approach to modern surface science. Professor John B. Hudson promotes an intuitive understanding of the concepts of surface science by using physical examples to illustrate basic surface structures and phenomena. Accessible and easy to read throughout, Surface Science provides a solid foundation from which to develop a conceptual understanding of the field.

Divided into four sections, Surface Science begins with descriptions of the structure, thermodynamics, and mobility of clean surfaces, then moves on to explore the interaction of gas molecules with solid surfaces. Next, Professor Hudson discusses the energetic particle interactions that are the basis for the majority of techniques developed to reveal the structure and chemistry of surfaces. The book concludes with a presentation of the background material involved in crystal nucleation and growth.

The product of more than three decades of experience in introducing students to surface science, this book includes:

- * State-of-the-art surface analysis techniques
- * Examples of phenomena and structures from current and classical works
- * A comprehensive presentation that can be easily tailored to senior undergraduate and graduate courses in a variety of disciplines
- * Extensive references and course-proven end-of-chapter problems.

Surface Science is an excellent textbook for advanced undergraduate and graduate students in engineering and the physical sciences who want a general overview of surface science. It also provides important background information for researchers just starting out in the field. JOHN B. HUDSON, PhD, is Professor of Materials Science in the Department of Materials Science and Engineering at Rensselaer Polytechnic Institute, Troy, New York.

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