



Surface Science: An Introduction

By John B. Hudson

Download now

Read Online ➔

Surface Science: An Introduction By John B. Hudson

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.

 [Download Surface Science: An Introduction ...pdf](#)

 [Read Online Surface Science: An Introduction ...pdf](#)

Surface Science: An Introduction

By John B. Hudson

Surface Science: An Introduction By John B. Hudson

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.

Surface Science: An Introduction By John B. Hudson Bibliography

- Sales Rank: #2922579 in Books
- Published on: 1998-03-09
- Original language: English
- Number of items: 1
- Dimensions: 9.29" h x .85" w x 6.02" l, 1.04 pounds
- Binding: Paperback
- 336 pages

 [Download Surface Science: An Introduction ...pdf](#)

 [Read Online Surface Science: An Introduction ...pdf](#)

Editorial Review

From the Back Cover

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.

About the Author

JOHN B. HUDSON, PhD, is Professor of Materials Science in the Department of Materials Science and Engineering at Rensselaer Polytechnic Institute, Troy, New York.

Users Review

From reader reviews:

Sophia Morrison:

The e-book with title Surface Science: An Introduction has a lot of information that you can learn it. You can get a lot of advantage after read this book. This particular book exist new information the information that exist in this e-book represented the condition of the world today. That is important to yo7u to find out how the improvement of the world. This kind of book will bring you with new era of the globalization. You can read the e-book on your smart phone, so you can read that anywhere you want.

Ron Taylor:

Playing with family in a very park, coming to see the sea world or hanging out with buddies is thing that usually you may have done when you have spare time, then why you don't try matter that really opposite from that. A single activity that make you not feeling tired but still relaxing, trilling like on roller coaster you already been ride on and with addition details. Even you love Surface Science: An Introduction, you may enjoy both. It is good combination right, you still desire to miss it? What kind of hang type is it? Oh can occur its mind hangout men. What? Still don't understand it, oh come on its called reading friends.

Alfonso Unruh:

Many people spending their time period by playing outside having friends, fun activity having family or just watching TV 24 hours a day. You can have new activity to invest your whole day by reading through a book. Ugh, do you think reading a book can definitely hard because you have to use the book everywhere? It okay you can have the e-book, getting everywhere you want in your Smart phone. Like Surface Science: An Introduction which is keeping the e-book version. So , why not try out this book? Let's view.

Maureen Smiley:

You can obtain this Surface Science: An Introduction by browse the bookstore or Mall. Only viewing or reviewing it can to be your solve trouble if you get difficulties on your knowledge. Kinds of this e-book are various. Not only through written or printed and also can you enjoy this book simply by e-book. In the modern era similar to now, you just looking by your local mobile phone and searching what your problem. Right now, choose your ways to get more information about your book. It is most important to arrange yourself to make your knowledge are still change. Let's try to choose right ways for you.

**Download and Read Online Surface Science: An Introduction By
John B. Hudson #PODE0ICXUB8**

Read Surface Science: An Introduction By John B. Hudson for online ebook

Surface Science: An Introduction By John B. Hudson Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Surface Science: An Introduction By John B. Hudson books to read online.

Online Surface Science: An Introduction By John B. Hudson ebook PDF download

Surface Science: An Introduction By John B. Hudson Doc

Surface Science: An Introduction By John B. Hudson Mobipocket

Surface Science: An Introduction By John B. Hudson EPub