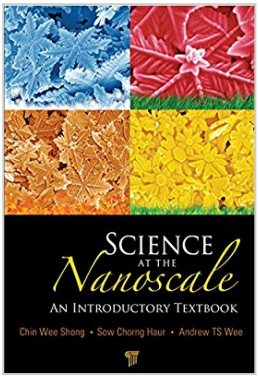

Science at the Nanoscale: An Introductory Textbook

By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong

Nanotechnology is one of the most important growth areas of this century. Nanoscience, the science underpinning nanotechnology, is a multidisciplinary subject covering atomic, molecular and solid state physics, and much of chemistry. Nanostructures are known to exhibit novel and improved material properties, fundamentally because the physical and chemical properties are very different when dimensions are reduced to the nanometer range.

Suitable for undergraduate students or advanced high school students, this book introduces the basic principles and knowledge needed for students to understand science at the nanoscale. Many ideas proposed in nanotechnology are frontier and futuristic, although some have immediate technological applications. The core scientific principles of all nanotechnology applications, however, are grounded in physics and chemistry. This practical, student-friendly introduction helps students recognize the connections among these various disciplines and how they play a part in nanoscience and technology.

Science at the Nanoscale: An Introductory Textbook

By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong

Nanotechnology is one of the most important growth areas of this century. Nanoscience, the science underpinning nanotechnology, is a multidisciplinary subject covering atomic, molecular and solid state physics, and much of chemistry. Nanostructures are known to exhibit novel and improved material properties, fundamentally because the physical and chemical properties are very different when dimensions are reduced to the nanometer range.

Suitable for undergraduate students or advanced high school students, this book introduces the basic principles and knowledge needed for students to understand science at the nanoscale. Many ideas proposed in nanotechnology are frontier and futuristic, although some have immediate technological applications. The core scientific principles of all nanotechnology applications, however, are grounded in physics and chemistry. This practical, student-friendly introduction helps students recognize the connections among these various disciplines and how they play a part in nanoscience and technology.

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong Bibliography

- Sales Rank: #2489625 in eBooks
- Published on: 2016-04-19
- Released on: 2016-04-19
- Format: Kindle eBook

Editorial Review

Review

"This book provides a very detailed and interesting overview of the fundamental principles of nanoscience, discusses the background of several nanoscience experimental techniques, and sheds light on some of the visionary and important applications in the truly interdisciplinary area of nanotechnology. The book will be a useful reference for graduate students and is expected to attract the attention of not only new graduate students but also senior scientists interested in the fascinating area of nanoscience and nanotechnology and those who are involved in a wide spectrum of disciplines ranging from physics, chemistry, surface science, spectroscopy, materials science and engineering to medicine."
?Prof. Wael Mamdouh and Prof. Flemming Besenbacher, University of Aarhus, Denmark

About the Author

Andrew T. S. Wee is a professor of physics and the dean of the faculty of science at the National University of Singapore. His research interests include surface nanostructure formation, molecular self-assembly on nanotemplates, synchrotron and scanning tunneling microscopy studies of surfaces and interfaces, and graphene and related nanomaterials.

Users Review

From reader reviews:

Barbara Jones:

Information is provisions for individuals to get better life, information nowadays can get by anyone in everywhere. The information can be a knowledge or any news even a concern. What people must be consider whenever those information which is in the former life are challenging to be find than now's taking seriously which one works to believe or which one the particular resource are convinced. If you find the unstable resource then you buy it as your main information you will have huge disadvantage for you. All those possibilities will not happen within you if you take Science at the Nanoscale: An Introductory Textbook as the daily resource information.

Ricardo Hayward:

Do you have something that you want such as book? The book lovers usually prefer to pick book like comic, limited story and the biggest one is novel. Now, why not attempting Science at the Nanoscale: An Introductory Textbook that give your satisfaction preference will be satisfied simply by reading this book. Reading addiction all over the world can be said as the way for people to know world considerably better then how they react towards the world. It can't be said constantly that reading behavior only for the geeky man but for all of you who wants to possibly be success person. So , for every you who want to start looking at as your good habit, you could pick Science at the Nanoscale: An Introductory Textbook become your current starter.

Jesus Moreno:

Your reading sixth sense will not betray anyone, why because this Science at the Nanoscale: An Introductory Textbook e-book written by well-known writer who knows well how to make book that may be understand by anyone who also read the book. Written inside good manner for you, leaking every ideas and writing skill only for eliminate your own personal hunger then you still hesitation Science at the Nanoscale: An Introductory Textbook as good book but not only by the cover but also by content. This is one book that can break don't determine book by its include, so do you still needing one more sixth sense to pick this specific!? Oh come on your reading through sixth sense already said so why you have to listening to an additional sixth sense.

Jackie Thompson:

You can find this Science at the Nanoscale: An Introductory Textbook by check out the bookstore or Mall. Just simply viewing or reviewing it could to be your solve issue if you get difficulties on your knowledge. Kinds of this guide are various. Not only simply by written or printed but can you enjoy this book through e-book. In the modern era such as now, you just looking by your local mobile phone and searching what their problem. Right now, choose your own personal ways to get more information about your book. It is most important to arrange you to ultimately make your knowledge are still upgrade. Let's try to choose appropriate ways for you.

Read Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong for online ebook

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong 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 Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong books to read online.

Online Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong ebook PDF download

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong Doc

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong Mobipocket

Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong EPub

9XO6IGNL3BW: Science at the Nanoscale: An Introductory Textbook By Andrew T. S. Wee, Chorng Haur Sow, Chin Wee Shong