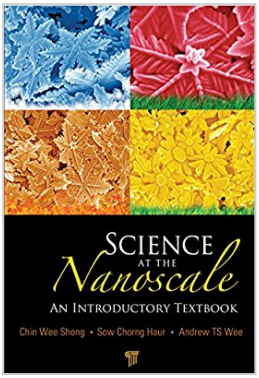

Science at the Nanoscale: An Introductory Textbook

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

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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.

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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.

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