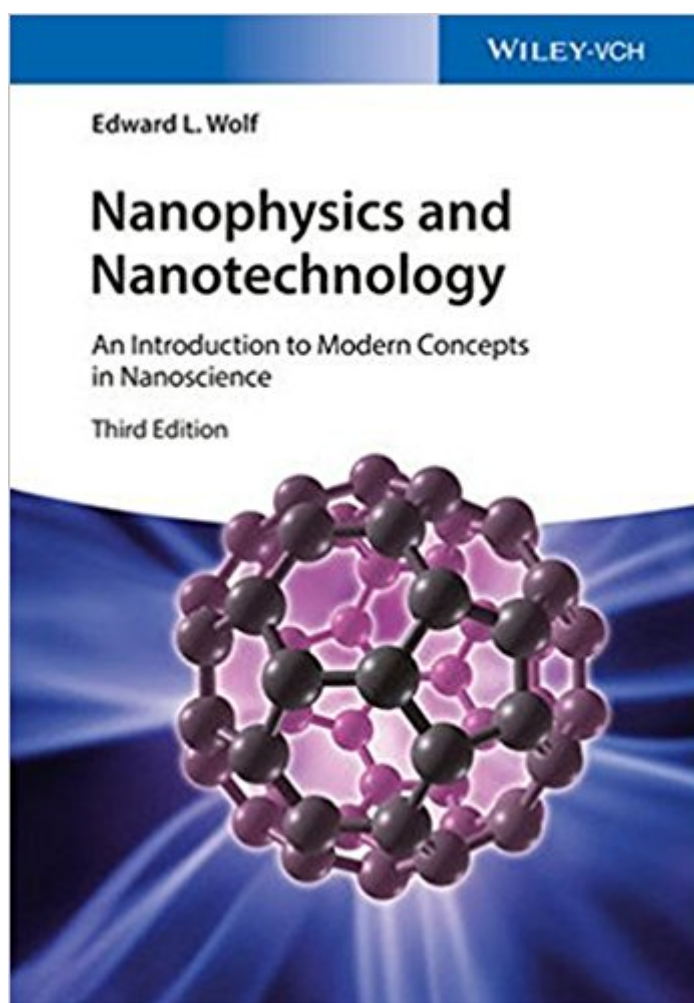


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Nanophysics And Nanotechnology: An Introduction To Modern Concepts In Nanoscience (No Longer Used)



Synopsis

Long awaited new edition of this highly successful textbook, provides once more a unique introduction to the concepts, techniques and applications of nanoscale systems by covering its entire spectrum up to recent findings on graphene.

Book Information

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Expanded by around 10% to incorporate recent developments in the field, the new edition of this highly successful textbook is unique in its tutorial presentation of the physical concepts and experimental approaches that lie at the heart of nanotechnology. A completely new section has been added on graphene, covering physical and electrical properties, synthesis and applications, as well as discussions of computer logic devices, silicon technology, and potential applications in photovoltaics. There are updates and corrections to every chapter, including the references, while the modern-day examples are chosen to represent important concepts and research tools.

Mathematical derivations are boxed in to be consulted as desired by those readers with a pertinent interest. Well illustrated, including explanatory diagrams to assist in the understanding of scientific principles, this is a self-contained text for upper-level undergraduate engineering or science students looking for a concise, easy-to-read introduction to this fascinating field of research. A free solutions manual is available for lecturers.

Edward L. Wolf is Professor of Physics at the Polytechnic Institute of NYU. He is an expert on

Nanotechnology, with a research background including Scanning Tunneling Microscopy. He has designed courses and written textbooks on Nanotechnology and Renewable Energy. His teaching includes modern physics, solid state physics, thermodynamics, and quantum mechanics. Professor Wolf is the author of more than a hundred papers in solid state physics, scanning tunneling microscopy, electron tunneling spectroscopy and superconductivity. He is Fellow of American Physical Society and received teaching and research awards at NYU Poly.

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