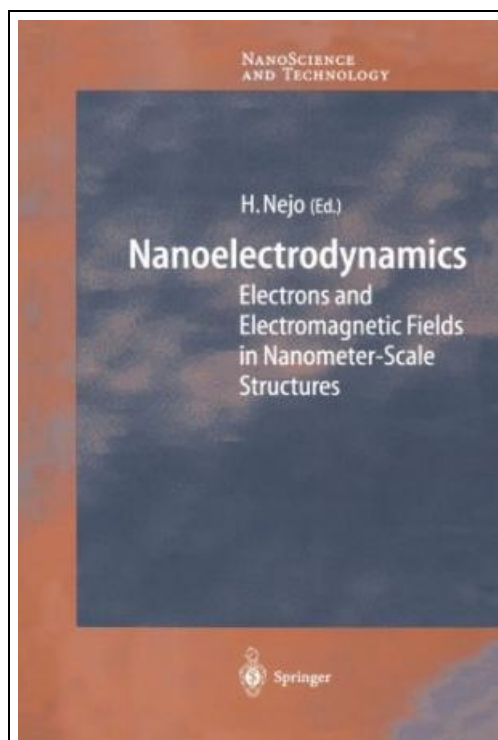


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NANOELECTRODYNAMICS: ELECTRONS AND ELECTROMAGNETIC FIELDS IN NANOMETER-SCALE STRUCTURE

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Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Paperback. Condition: New. 182 pages. Dimensions: 9.0in. x 6.0in. x 0.5in. Many books on mesoscopic systems have been published as progress has continued in the fields of nanoscience and nanotechnology. The focus in these books is mainly on quantum mechanical behavior in artificial electronic systems fabricated by nanometer-scale structuring. Such quantum mechanical behavior is projected to macroscopic observers and the quantum nature can be utilized in practical devices. Quantum computers, another hot topic nowa days, are characterized by excitation coherence properties among nanostructures, and the ability to maintain excitations is very important when using the characteristics as information. In that sense, the device is described as a microscopic system and some processes occur before being projected to macroscopic observers. In this book, the authors try to describe not only the techniques for fabricating nanostructures but also new directions as regards exciting systems and understanding how energy is dissipated through observation. The idea of nano-electrodynamics underlying the book is an analogy with the well-established classical electrodynamics. In contrast to the latter, nano-electrodynamics is still in its infancy and far from well established. When a structure is miniaturized as a device, it is essential to have control over energy excitation and dissipation. Otherwise, when a device is squeezed down beyond a certain size and the energy dissipation becomes overwhelmed, the device will eventually collapse. It is our aim in this book to provide some thoughts on the task of making devices out of small structures. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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