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This book provides an introduction to the physics of nanoelectronics, with a focus on the theoretical aspects of nanoscale devices. The book begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics, to facilitate the understanding of subsequent chapters.

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The book starts from the semiclassical description of nonequilibrium effects, details the scattering theory used for quantum transport calculations, and explains the main interference effects. It also describes how to treat fluctuations and correlations, how interactions affect transport through small islands, and how superconductivity modifies these effects.

Nanoelectronics - Technische Physik

2.2 Nanoelectronics and nanoscale condensed matter physics. 2.3 Emerging nanoelectronic devices and systems. 2.4 Electronic background. 2.5 Non-interacting electron gas. 2.6 Interacting electron gas. 2.7 Electron localization. Chapter 3: Electron dynamics in nanoscale devices. Abstract: 3.1 Introduction to electron transport

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Introduction to the Physics of Nanoelectronics - 1st Edition

This textbook provides an intermediate-level introduction to the very rich physics of nanoelectronics. The book treats in a balanced way the semi-classical and quantum transport regimes, and bridges up-to-date research topics, such as molecular electronics, graphene, NEMS, and full-counting statistics, with more traditional material.

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The physics of nanoelectronics: transport and fluctuation ...

There is a good balance of physics, diagrams, and mathematical detail. It will be a valuable textbook for graduate students starting in the field of nanoelectronics." -- Derek Lee, Imperial College London "This is a clearly written, well-organized book on nanoelectronics. ...

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(2015). The Physics of Nanoelectronics: Transport and Fluctuation Phenomena at Low Temperatures, by Tero T. Heikkilä. Contemporary Physics: Vol. 56, No. 1, pp. 90-91.

Fundamentals of Nanoelectronics, Part B: Quantum Transport ...

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The Physics of Nanoelectronics: Transport and Fluctuation ...

This book, which provides an introduction to the field of nanoelectronics, explains the physical phenomena that take place in nanoelectronic structures and explains how these phenomena are accessed in measurements. The emphasis is on phenomena taking place at low temperatures, where thermal noise cannot completely suppress the interesting physics.

The Physics of Nanoelectronics by Heikkilä, Tero T. (ebook)

We will explore a number of topics within nanoelectronics, taking a more in depth look at quantum transport, gaining greater insight into the application of the Schrodinger Equation, and learning the basics of spintronics. "The course was just awesome!" - Student from Part A

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