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Introduction to Nanoelectronics: Science, Nanotechnology, Engineering, and Applications Vladimir V. Mitin , Viatcheslav A. Kochelap , Viacheslav Aleksandrovich Kochelap , Michael A. Stroscio Cambridge University Press , 2008 - Technology & Engineering - 329 pages

Introduction to Nanoelectronics: Science, Nanotechnology ...

The authors present the fundamental principles in nanoscience, basic techniques of measurement, fabrication and manipulation of matter at the nanoscale, and discuss how these principles, techniques and technologies are applied in the field of nanoelectronics. ([c]20082005 Book News, Inc., Portland, OR)

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This textbook is a comprehensive, interdisciplinary account of the technology and science underpinning nanoelectronics, covering the underlying physics, nanostructures, nanomaterials, and nanodevices.

Introduction to Nanoelectronics | Guide books

The Introduction of Nanoelectronics Traditional materials can only go so far before they reach a point where they can't get any smaller. This is where nanotechnology comes in and has enabled the field of nanoelectronics to emerge—which is when electronic components created using nanomaterials and are a fraction of the size of components made from conventional 'bulk' materials.

An Introduction to Nanoelectronics | Bench Talk

Introduction to Nanoelectronics: Science, Nanotechnology, Engineering, and Applications Hardcover - 6 December 2007 by Vladimir V. Mitin (Author), Viatcheslav A. Kochelap (Author), Michael A. Stroscio (Author) 5.0 out of 5 stars 1 rating See all formats and editions

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Introduction to Nanoelectronics: Science, Nanotechnology ...

To prepare for the next generation of electronic devices, this class teaches the theory of current, voltage and resistance from atoms up. To describe electrons at the nanoscale, we will begin with an introduction to the principles of quantum mechanics, including quantization, the wave-particle duality, wavefunctions and Schrödinger's equation.

Introduction to Nanoelectronics | Electrical Engineering ...

Nanoelectronics. Nanoelectronics is an area which encompasses, among others, subtopics such as spintronics, topological insulators and carbon-based electronics (principally carbon nanotubes and graphene). From: Introduction to the Physics of Nanoelectronics, 2012. Download as PDF.

Nanoelectronics - an overview | ScienceDirect Topics

This textbook is a comprehensive, interdisciplinary account of the technology and science underpinning nanoelectronics, covering the underlying physics, nanostructures, nanomaterials, and nanodevices. It provides a unifying framework for the basic ideas needed to understand the developments in the field.

Introduction to Nanoelectronics: Science, Nanotechnology ...

Introduction Nanotechnology is a mindset, even though the scientific community is fascinated with the field of nanoscience, most of the ongoing discussions, definitions, and attention is focused on nanotechnology. As such, it represents a broad term which demonstrates the apotheosis of man's ceaseless urge for knowledge having practical potential.

An Introduction to Nanotechnology - ScienceDirect

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Nanoscience is the study of systems in nanoscale and nanotechnology is the ability to systematically organize and manipulate properties and behavior of matter in the atomic and molecular levels.

(PDF) An Introduction to Nanoscience & Nanotechnology

Nanoelectronics refers to the use of nanotechnology in electronic components. The term covers a diverse set of devices and materials, with the common characteristic that they are so small that inter-atomic interactions and quantum mechanical properties need to be studied extensively.

Nanoelectronics - Wikipedia

Nanoelectronics covers a diverse set of devices and materials, with the common characteristic that they are so small that physical effects alter the materials' properties on a nanoscale - inter-atomic interactions and quantum mechanical properties play a significant role in the workings of these devices.

Nanoelectronics - Definition and Applications

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A tutorial coverage of electronic technology, starting from the basics of condensed matter and quantum physics. Experienced author Ed Wolf presents established and novel devices like Field Effect and Single Electron Transistors, and leads the reader up to applications in data storage, quantum computing, and energy harvesting. Intended to be self-contained for students with two years of ...

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