Introduction To Nanoelectronics

Comprehensive textbook on nanoelectronics covering the underlying physics, nanostructures, nanomaterials and nanodevices.This book was first published in 2008. Increasing miniaturization of devices, components, and integrated systems requires developments in the capacity to measure, organize, and manipulate matter at the nanoscale. This textbook is a comprehensive, interdisciplinary account of the technology and science that underpin nanoelectronics, covering the underlying physics, nanostructures, nanomaterials, and nanodevices. Without assuming prior knowledge of quantum physics, this book provides a unifying framework for the basic ideas needed to understand the recent developments in the field. Numerous illustrations, homework problems and interactive Java applets help the student to appreciate the basic principles of nanotechnology, and to apply them to real problems. Written in a clear yet rigorous and interdisciplinary manner, this textbook is suitable for advanced undergraduate and graduate students in electrical and electronic engineering, nanoscience, materials, bioengineering, and chemical engineering. EAN/ISBN : 9780511368110 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Mitin, Vladimir V. - Kochelap, Viatcheslav A. - Stroscio, Michael A.

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