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Introduction to Nanoelectronics

Nanotechnology (NT) is the complex interdisciplinary science including nanoscience, nanochemistry, nanophysics, nanomaterials, nanoelectronics, nanometrology, nanobionics, etc. Nanotechnology is a relatively new branch of science that has found a wide range of applications that range from energy production to industrial production processes to biomedical applications.

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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. It provides a unifying framework for the basic ideas needed to understand the developments in the field.