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Nota di contenuto	Frontmatter -- Contents -- Introduction -- Part 1 Nanotechnology basics -- I. Nanoscience and nanotechnology -- II. The Quantum world -- III. The mesoscopic world -- IV. Nanomaterials and nanostructures -- V. Natural nanomaterials -- VI. Nanofabrication -- VII. King carbon -- Part 2 Applications of nanotechnology -- VIII. Health Diagnostics -- IX. Therapeutics -- X. Regenerative medicine -- XI. The Food Chain -- XII. From microelectronics to nanoelectronics -- XIII. Quantum nanoelectronics -- XIV. Molecular electronics -- XV. Nanocatalysis -- XVI. Energy production -- XVII. Housing -- XVIII. Nanotechnology in automobiles -- XIX. Defense and security -- XX. Nanotoxicity -- Notes -- List of illustrations' copyright and licensing -- Short bibliography
Sommario/riassunto	This book explores nanotechnology, a rapidly evolving and growing field with applications in a large number of areas. The concepts and physics are highlighted through topics such as nanoscience, quantum effects, nanostructures, and new forms of carbon. Applications and potential health and safety implications of nanomaterials are discussed for healthcare, food production, electronics, defence and more.

Accessible and timely, this introduction to nanotechnology will interest students, teachers, politicians, and everyone else eager to learn more about this dynamic field.
