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Nota di contenuto

Frontmatter -- Preface -- Contents -- 1. Introduction -- 2. Semiconductor nanoparticles -- 3. Metal nanoparticles -- 4. Metal oxide nanoparticles -- 5. Organic and biological nanoparticles -- 6. Hybrid and composite nanoparticles -- 7. Nanoparticle interactions with biomolecules and cells -- 8. Nanoparticle assemblies -- Further reading -- Index

Sommario/riassunto

Nanoparticles presents the remarkable variety of nanoparticle families, compositions, structures, and functions. The book discusses nanoparticles made of semiconductors, metals, metal-oxides, organics, biological and hybrid constituents. Through a wealth of examples and case studies, supplemented by numerous figures, readers that are not necessarily active or experts in this area acquire abroad overview of this exciting field at the interface between scientific research and practical technologies. The contents summarize the contributions to this field of diverse scientific and technological disciplines - chemistry, physics, biology, electronics and others providing a comprehensive knowledge - the types of nanoparticles, their compositions and how the relationships between the atomic constituents affect their properties, as well as potential applications of nanoparticles. - Covers diverse uses of nanoparticles in scientific research and industrial applications, underscoring their extraordinary diversity and potential utilization. - Experimental and conceptual approaches applied to the study of nanoparticles are discussed extensively. Additional references provide the reader with a basis for further study. - Also available by Professor Jelinek: Biomimetics - A Molecular Perspective (2013), ISBN: 978-3-11-028117-0
