Título: Principles Of Nanotechnology. Molecular-Based Study Of Condensed Matter In Smal

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This invaluable book provides a pointed introduction to the fascinating subject of bottom-up nanotechnology with emphasis on the molecular-based study of condensed matter in small systems. Nanotechnology has its roots in the landmark lecture delivered by the famous Noble Laureate physicist, Richard Feynman, on 29 December 1959 entitled "There's Plenty of Room at the Bottom." By the mid-1980s, it had gained real momentum with the invention of scanning probe microscopes. Today, nanotechnology promises to have a revolutionary impact on the way things are designed and manufactured in the future. Principles of Nanotechnology is self-contained and unified in presentation. It may be used as a textbook by graduate students and even ambitious undergraduates in engineering, and the biological and physical sciences who already have some familiarity with quantum and statistical mechanics. It is also suitable for experts in related fields who require an overview of the fundamental topics in nanotechnology.The explanations in the book are detailed enough to capture the interest of the curious reader, and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature. Due to the interdisciplinary nature of nanotechnology, a comprehensive glossary is included detailing abbreviations, chemical formulae, concepts, definitions, equations and theories.