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nanotechnology is still at
the largely unexplored
frontier of science, it has
the potential for
extremely exciting
technological innovations

that will have an enormous impact on areas as diverse as information technology, medicine, energy supply and probably many others. The miniturization of devices and structures will impact the speed of devices and information storage capacity. More importantly, though, nanotechnology should lead to completely new functional devices as nanostructures have fundamentally different physical properties that are governed by quantum effects. When nanometer

sized features are fabricated in materials that are currently used in electronic, magnetic, and optical applications, quantum behavior will lead to a set of unprecedented properties. The interactions of nanostructures with biological materials are largely unexplored. Future work in this direction should yield enabling technologies that allows the study and direct manipulation of biological processes at the (sub) cellular level.

Physical Chemistry: Quantum Mechanics CRC Press
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many practical

applications of physical chemistry are integrated throughout the text. The problems in the text also reflect a skillful blend of theory and practical applications. This text is ideally suited for a standard undergraduate physical chemistry course taken by chemistry, chemical engineering, and biochemistry majors in their junior or senior year. Organic Chemistry Ingram Linda Nilson puts forward an innovative but practical and tested approach to grading--the specifications grading

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Study Guide with Solutions Manual for Brown/Iverson/Anslyn/Foote's Organic Chemistry, 7th Elsevier

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Inorganic Chemistry For Dummies Princeton Review

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