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**Peter Atkins,Julio de Paula**

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enhance the learning experience. In addition it offers formative auto graded assessment materials to provide students with regular opportunities to test their understanding. Digital enhancements introduced for the new edition include dynamic graphs which students can interact with to explore how the manipulation of variables affects the results of the graphs. Self check questions at the end of every Topic video content from physical chemists and video tutorials to accompany each Focus which dig deeper into the key equations introduced. There is also a new foundational prologue entitled Energy A First Look which summarizes key concepts that are best kept in mind right from the beginning of physical chemistry studies. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins Physical Chemistry remains the textbook of choice for studying physical chemistry.

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Contains complete worked out solutions for all B exercises and half of the end of chapter problems.

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Building on the heritage of the world renowned Atkins Physical Chemistry Quanta Matter and Change gives a refreshing new insight into the familiar by illuminating physical chemistry from a new direction. Book Jacket **Atkins' Molecules** Peter William Atkins, 2003-09-25 Table of contents **Atkins' Physical Chemistry: Thermodynamics and kinetics**

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Student's Solutions Manual to Accompany Atkins' Physical Chemistry C. A. Trapp,M. P. Cady,Carmen Giunta,2010 This solutions manual provides the authors detailed solutions to exercises and problems in physical chemistry It comprises solutions to exercises at the end of each chapter and solutions to numerical theoretical and additional problems **Ceramic Materials** C. Barry Carter,M. Grant Norton,2007-10-23 Ceramic Materials Science and Engineering is an up to date treatment of ceramic science engineering and applications in a single integrated text Building on a foundation of crystal structures phase equilibria defects and the mechanical properties of ceramic materials students are shown how these materials are processed for a broad diversity of applications in today s society Concepts such as how and why ions move how ceramics interact with light and magnetic fields and how they respond to temperature changes are discussed in the context of their applications References to the art and history of ceramics are included throughout the text The text concludes with discussions of ceramics in biology and medicine ceramics as gemstones and the role of ceramics in the interplay between industry and the environment Extensively illustrated the text also includes questions for the student and recommendations for additional reading **KEY FEATURES** Combines the treatment of bioceramics furnaces glass optics pores gemstones and point defects in a single text Provides abundant examples and illustrations relating theory to practical applications Suitable for advanced undergraduate and graduate teaching and as a reference for researchers in materials science Written by established and successful teachers and authors with experience in both research and industry Physical Chemistry Vol 2: Quantum Chemistry Peter Atkins,Julio de Paula,2010-02-26 With its modern emphasis on the molecular view of physical chemistry its wealth of contemporary applications vivid full color presentation and dynamic new media tools the thoroughly revised new edition is again the most modern most effective full length textbook available for the physical chemistry classroom Volume 2 of Physical Chemistry Ninth Edition contains the new edition s coverage of quantum chemistry Chapters 7 11 spectroscopy Chapters 12 14 and statistical thermodynamics Chapters 15 16

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