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William Atkins, Julio De Paula, James Keeler, 2023 Atkins Physical Chemistry is widely acknowledged by students and lecturers around the globe to be the textbook of choice for studying physical chemistry. The exceptional quality of previous editions has been built upon to make the twelfth edition of Atkins Physical Chemistry even more closely suited to the needs of both lecturers and students. The writing style has been refreshed in collaboration with current students of physical chemistry in order to retain the clarity for which the book is recognized while mirroring the way you read and engage with information. The new edition is now available as an enhanced e book which offers you a richer more dynamic learning experience. It does this by incorporating digital enhancements that are carefully curated and thoughtfully inserted at meaningful points to 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.

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students in other areas of science and engineering requiring a familiarity with the subject An Introduction to Theoretical Chemistry Jack Simons, 2003-03-20 Textbook on modern theoretical chemistry suitable for advanced undergraduate or graduate students **Physical Chemistry for the Life Sciences** Peter William Atkins, R. George Ratcliffe, Julio de Paula, Mark Wormald, 2023 This text provides a balanced presentation of the concepts of physical chemistry and their applications to biology and biochemistry Written to straddle the worlds of physical chemistry and the life sciences it shows students how the tools of physical chemistry can elucidate biological questions **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 Solutions Manual to Accompany Elements of Physical Chemistry C. A. Trapp, M. P. Cady, 2007 The Solutions manual to accompany Elements of Physical Chemistry 4e contains full worked solutions to all end of chapter exercises featured in the book Elements of Physical Chemistry Peter William Atkins, Julio De Paula, 2017 This revision of the introductory textbook of physical chemistry has been designed to broaden its appeal particularly to students with an interest in biological applications ,

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