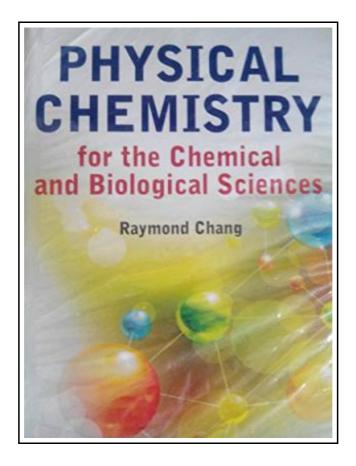
# Physical Chemistry for the Chemical and Biological Sciences



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Viva Books Private Limited, 2015. Softcover. Book Condition: New. Description: Hailed by advance reviewers as? a kinder, gentler P. Chem. text,? this book meets the needs of a full-year course in physical chemistry. It is an ideal choice for classes geared toward premedical and life sciences students. Or, as stated in a May 2001 review in Journal of Chemical Education, ?this text meets these students where they are and opens the door to physical chemistry from a perspective they can appreciate.? Physical Chemistry for the Chemical and Biological Sciences offers a wealth of applications to chemical and biological problems and numerous chapter-ending exercises. Well known for his clear writing and careful pedagogical approach, Raymond Chang has developed yet another masterpiece in chemical education. Key Features: ? a student-oriented, highly readable text ? traditional and flexible organization? a functional and pleasing two-color format? many worked examples in text? @1000 chapter-ending problems? an overview of key equations in each chapter? a glossary of key terms ? answers provided to even-numbered computational problems Contents: Preface CHAPTER 1: Introduction ? Nature of Physical Chemistry? Units? Force? Pressure? Energy? Atomic Mass, Molecular Mass, and the Chemical Mole CHAPTER 2: The Gas Laws? Some Basic Definitions? An Operational Definition of Temperature? Boyle?s Law? Charles? and Gay-Lussac?s Law/Avogadro?s Law? The Ideal Gas Equation? Dalton?s Law of Partial Pressures? Real Gases? The van der Waals Equation? The Virial Equation of State? Condensation of Gases and the Critical State? Problems CHAPTER 3: Kinetic Theory of Gases? The Model? Pressure of a Gas? Kinetic Energy and Temperature? The Maxwell Distribution Laws? Molecular Collisions and the Mean Free Path ? Gas Viscosity? Graham?s Laws of...



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