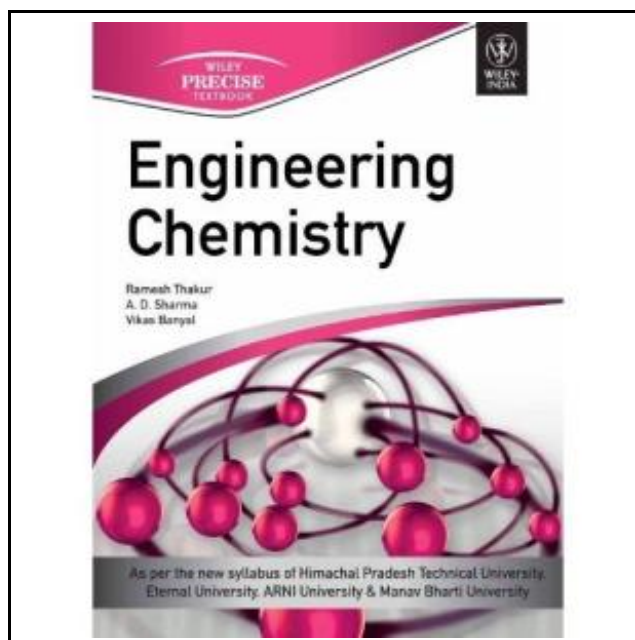


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(Ms. Althea Kassulke DDS)

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Wiley India Pvt. Ltd, 2012. Softcover. Book Condition: New. The book aims to impart in-depth knowledge of the subject and highlight the role of chemistry in the field of engineering. The lucid explanation of the topics will help students understand the fundamental concepts and apply them to design engineering materials and solve problems related to them. An attempt has been made to logically correlate the topic with its application. The book deals with basic principles of various branches of chemistry that is physical, inorganic, and analytical and extends the application of concepts to polymer, fuel and material chemistry. Other topics include photochemistry, water and its treatment and corrosion and its control. The chapter for each topic begins with clearly defined learning objectives, followed by introduction of subtopics, their precise and adequate explanation supported with ample illustrations and diagrams. Solved examples are given at the end of relevant subtopics to strengthen the concepts. The chapters conclude with a set of review and practice questions.

1. Chemical Bonding 1.1 Ionic Bond 1.2 Covalent Bond 1.3 Coordinate or Dative Bond 1.4 Quantum Theory of Chemical Bonding 1.5 Valence Bond Theory 1.6 Molecular Orbital Theory 1.7 Effective Nuclear Charge 1.8 Metallic Bond 1.9 Hydrogen Bond 1.10 van der Waals Forces

2. Thermodynamics and Chemical Equilibrium 2.1 Some Important Terms in Thermodynamics 2.2 The First Law of Thermodynamics 2.3 Enthalpy or Heat Content 2.4 The Second Law of Thermodynamics 2.5 Entropy 2.6 The Third Law of Thermodynamics 2.7 Free Energy 2.8 Thermodynamic Criteria for Equilibrium 2.9 Physical Equilibrium 2.10 Chemical Equilibrium 2.11 Ionic Equilibrium

3. Chemical Kinetics 3.1 Rate of Reaction 3.2 Order and Molecularity 3.3 Integrated Rate Equations and Half Lives 3.4 Pseudo-Order Reactions 3.5 Complex Reactions 3.6 Temperature Dependence of Rate of Reactions 3.7 Theory of Reaction Rates

4. Phase Rule 4.1 Definition...



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