



Engineering Chemistry for UTU

By Chinnappan Baskar, Ranjit S. Dhillon, Shikha Baskar

Wiley India Pvt. Ltd, 2012. Softcover. Book Condition: New. Engineering Chemistry is exclusively designed for the first-year engineering undergraduate students of Uttarakhand Technical University (UTU). This book aims to impart to students an in-depth knowledge of various aspects of chemistry as applied to engineering. This textbook contains 10 chapters covering all the disciplines of Engineering Chemistry and deals with various branches of chemistry - physical, inorganic, organic, and analytical - and extends the application of concepts to organic reaction mechanisms, stereo chemistry, etc. Other topics covered include chemical kinetics, electrochemistry, water and its treatment, fuels and combustion, and chemical and instrumental methods of analyses. 1.General Chemistry Learning Objectives 1.1Valence Bond Theory 1.2Hybridization and Shapes of Molecules 1.3Molecular Orbital Theory 1.4Metallic Bond 1.5Hydrogen Bond 1.6van der Waals Forces 1.7Solid State 1.8Space Lattice and Unit Cell 1.9Types of Unit Cell 1.10Cubic Lattice 1.11Crystal Structure 1.12Bragg?s Law - X-Ray Structure of Crystals 1.13Liquid Crystals and Their Applications 1.14 Fullerenes - Structure and Applications Applications Key Terms Objective-Type Questions Review Questions Numerical Problems Answers 2. Organic Reaction Mechanisms Learning Objectives 2.1Bonding in Organic Molecules 2.2Electronic Displacement Effects in Organic Molecules 2.3Reactive Intermediates 2.4Attacking Reagents in an Organic Reaction 2.5Types of Organic Reactions 2.6Addition Reactions...



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