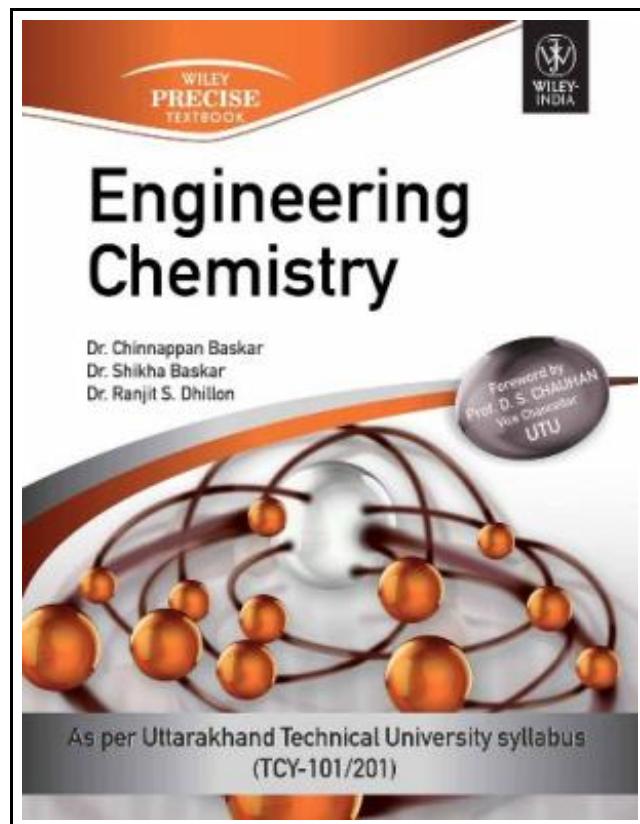


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1. General Chemistry Learning Objectives
1.1 Valence Bond Theory
1.2 Hybridization and Shapes of Molecules
1.3 Molecular Orbital Theory
1.4 Metallic Bond
1.5 Hydrogen Bond
1.6 van der Waals Forces
1.7 Solid State
1.8 Space Lattice and Unit Cell
1.9 Types of Unit Cell
1.10 Cubic Lattice
1.11 Crystal Structure
1.12 Bragg's Law - X-Ray Structure of Crystals
1.13 Liquid 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
2.1 Bonding in Organic Molecules
2.2 Electronic Displacement Effects in Organic Molecules
2.3 Reactive Intermediates
2.4 Attacking Reagents in an Organic Reaction
2.5 Types of Organic Reactions
2.6 Addition Reactions
2.7 Substitution Reactions
2.8 Elimination Reactions
2.9 Rearrangement Reactions
2.10 Some Name Reactions

Key Terms Objective-Type Questions Review Questions Answers

3. Stereochemistry Learning Objectives
3.1 Stereoisomerism
3.2 Chirality and Optical Activity
3.3 Optical Isomerism
3.4 Configuration
3.5 Geometrical Isomerism
3.6 Conformational Isomerism

Key Terms Objective-Type Questions Review Questions Numerical Problems Answers

4. Chemical Kinetics Learning Objectives
4.1 Rate of Reaction
4.2 Order and Molecularity
4.3 Integrated Rate Equations and Half Lives
4.4 Pseudo-First-Order
4.5 Temperature Dependence of Rate of Reactions
4.6 Theories of Reaction Rates

4.7 Catalysts Types of Catalysts
Types of Catalytic Reactions
Mechanism of Catalysis

Key Terms Objective-Type Questions Review Questions Numerical Problems Answers

5. Electrochemistry Learning Objectives
5.1 Electrical Conductance
5.2 Electrochemical Cells
5.3 Electrode Potential
5.4 Galvanic...

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