



# Chemistry for Engineers

By Mira Das, Rashmi Acharya

Wiley India Pvt. Ltd, 2012. Softcover. Book Condition: New. The book is as per first year engineering syllabus of Biju Patnaik University of Technology (BPUT), Siksha 'O' Anusandhan University (S'OA), Odisha and other Indian technical universities. It is written in such a way that each chapter begins with learning objectives and then further focuses on the explanation of concepts with examples for easy comprehension. The presentation is clear, logical and concise with optimum balance of qualitative and quantitative problem set. 1 Quantum Mechanical Approach to Atomic Structure Learning Objectives 1.1 Development of Quantum Mechanics 1.2 Black Body Radiation 1.3 Photoelectric Effect 1.4 Wave and Particle Characteristics of Matter (de Broglie's Relation) 1.5 Atomic Spectra 1.6 Heisenberg's Uncertainty Principle 1.7 Schrödinger Wave Equation Key Terms Objective-Type Questions Review Questions Numerical Problems Answers 2. Chemical Bonding Learning Objectives 2.1 Valence Bond Theory 2.2 Molecular Orbital Theory 2.3 Metallic Bond Key Terms Objective-Type Questions Review Questions Answers 3. Spectroscopy Learning Objectives 3.1 Introduction 3.2 Electromagnetic Radiations 3.3 Laws of Absorption 3.4 Ultraviolet-Visible Spectroscopy 3.5 Infrared Spectroscopy 3.6 Microwave Spectroscopy Key Terms Objective-Type Questions Review Questions Numerical Problems Answers 4. Coordination Chemistry Learning Objectives 4.1 Terms and Terminology in Coordination Chemistry 4.2 Rules for...



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