Engineering Chemistry (As per latest VTU syllabus), (Revised Edition)

By Dr K. Pushpalatha

Wiley India Pvt. Ltd, 2014. Softcover. Book Condition: New. 5th or later edition. The Engineering Chemistry course for undergraduate students is designed to strengthen the fundamentals of chemistry and then build an interface of theoretical concepts with their industrial/engineering applications. This book is structured keeping in view the objective of the course and is exclusively designed for the first-year engineering undergraduate students of Visvesvaraya Technological University (VTU). The book aims to impart to students an in-depth knowledge of various aspects of chemistry as applied to engineering. It deals with advanced topics relevant to Engineering Chemistry course, that include Electrode Potential and Cells, Batteries and Fuel Cells, Corrosion and its Control, Metal Finishing, Chemical Fuels and Photovoltaic Cells, Water and its Treatment and Instrumental Methods of Analyses. Preface 1. Electrode Potential and Cells 1.1 Electrochemical Cells 1.2 Electrode Potential 1.3 Galvanic Cells 1.4 Nernst Equation 1.5 Measurement of EMF of the Cell 1.6 Types of Electrodes 1.7 Reference Electrodes 1.8 Single Electrode Potential 1.9 Glass Electrode 1.10 Concentration Cells 2. Batteries and Fuel Cells 2.1 Classification of Batteries 2.2 Characteristics of a Battery 2.3 Classical Batteries 2.4 Modern Batteries 2.5 Fuel Cells 2.6 Types of Fuel Cells 2.7 Supercapacitor 3. Corrosion...

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