

average student can grasp the intricacies of the subject. It includes the general concepts of structure and bonding, phase rule, solid state, reaction kinetics and catalysis, electrochemistry, chemical thermodynamics and free energy. Besides, the book introduces topics of applied chemistry like water technology, polymer chemistry and nanotechnology. Each theoretical concept is well supported by illustrative examples. The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts. KEY FEATURES (i) Each chapter of the book provides a clear and easy understanding of the definitions, theories and principles. (ii) A large number of well-labelled diagrams help to understand the concepts easily and clearly. (iii) Chapter-wise glossary and important mathematical relations are given for quick revision. (iv) Provides multiple choice questions with answers, short questions and long questions for practice.a

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As a paradigm for the future, micro-scale technology seeks to fuse revolutionary concepts in science and engineering and then translate it into reality. Nanotechnology is an interdisciplinary field that aims to connect what is seen with the naked eye and what is unseen on the molecular level. The Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering examines the strengths and future potential of micro-scale technologies in a variety of industries. Highlighting the benefits, shortcomings, and emerging perspectives in the application of nano-scale technologies, this book is a comprehensive reference source for synthetic chemists, engineers, graduate students, and researchers with an interest in the multidisciplinary applications, as well as the ongoing research in the field.

The Composites Are Well Known To Mankind Since Pre-Historic Period And Were Practiced As Well. But With The Development Of Polymers And Polymer Science, The Concept And Technology Have Undergone Sea Change In The Understanding Of The Basics Like The Role Of Matrix And Reinforcement, Bonding Mechanism, Morphological Features And Environmental Effects Etc.Polymer Composites Due To Their Lightweight, Chemical And Corrosion Resistance As Well As Heterogeneous Composition Provide Unlimited Possibilities Of Deriving Any Characteristic Material Behaviour. This Unique Flexibility In Design Tailoring And Other Characteristics, Such As Ease Of Manufacturing, High Specific Strength, Stiffness, Shape Molding, Corrosion Resistance, Durability, Adaptability And Cost Effectiveness, Have Attracted The Attention Of Engineers And Material Scientist And Technologists. They Have Become Materials Of 21St Century To Meet The Requirement Of Space, Missile, Marine And Medical Aid Technologies.This Book Deals In Detail Polymer Composites And Is Intended As Introduction To The Field Of Polymer Composites, Covering Various Aspects Of Structure, Design, Behaviour, Use And Quality Assurance. Though Designed Primarily For Polymer Technologists And Scientists, The Book May Prove To Be Useful For Under Graduate And Postgraduate Students Of Material Science And Engineering, Polymer Science And Chemical Technology Disciplines. The Book May Also Prove Useful For Students Of Polymer Chemistry. ??????????????(?????)

Over the years, researchers have reported solubility data in the chemical, pharmaceutical, engineering, and environmental literature for several thousand organic compounds. Until the first publication of the Handbook of Aqueous Solubility Data, this information had been scattered throughout numerous

sources. Now newly revised, the second edition of Engineering Chemistry discusses the fundamental theoretical concepts of chemistry and links them with their engineering applications. The book is designed as an introductory course for undergraduate students in all branches of engineering. Employing an easy-to-understand approach, it elaborates on the fundamental concepts and their applications, and includes scores of illustrations and learning exercises to facilitate comprehension. Starting with areas of common interest, such as fuels, water, corrosion and phase rule, followed by chapters on engineering materials, polymers and lubricants, the book then covers a range of important subjects, such as structure and bonding, solid state, liquid crystal, chemical kinetics, surface chemistry, thermodynamics, electrochemistry, spectroscopy, photochemistry, the basics of organic chemistry and organometallic compounds. It also covers the applications of several important topics in detail, including nanomaterials, green chemistry, NMR spectroscopy and biotechnology.

This book will be useful for degree & diploma Curriculum of Engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers(AMIE) and Indian Institute of chemical Engineers (AMIIChE) etc. Salient Features of This Book * Subject matter has been presented in simple, lucid & easy to understand language * Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers.

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