



Engineering Chemistry 1 By Ravikrishnan - PvdA

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Well-defined cationic polylactides (CPLAs) with tertiary amine groups were synthesized by thiol-ene click functionalization of an allyl-functionalized polylactide to yield polymers with tunable charge densities. CPLAs have not previously been utilized in the context of DNA delivery. Thus, plasmid DNA (pDNA) encoding luciferase was delivered to two physiologically distinct cell lines ...

Synthesis of Cationic Polylactides with Tunable Charge ...

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Genetic vaccination is predicated on the underlying principle that diseases can be prevented by the controlled introduction of genetic material encoding antigenic proteins from pathogenic organisms to elicit the formation of protective immune responses. Driving this process is the choice of carrier that is responsible for navigating the obstacles associated with gene delivery.

Chemistry for Technologists provides a basic text on chemical principles written specifically for the technologists. The topics covered are those of basic chemistry. Definitions of such terms as chemical reactions, stoichiometry, and atomic structures are made simple so as not to require prior technical background of the subject. The book introduces the student to topics such as structural chemistry, physical chemistry, organic chemistry, and inorganic chemistry. A chapter on analytical chemistry is also provided. The chapter focuses on method of analysis such as routine methods, electrometric methods, and chromatographic methods. Chromatography is a type of separation method, which is discussed in detail. Different types of chromatography are also enumerated. The waves mechanics and hydrogen atom are fully covered. The electronic nature of bonding and bonding between two hydrogen atoms are discussed in detail. The ionic crystals, molecular crystals, and covalent crystals are presented completely. The text will be a useful tool for technology students and practising technologists.

Environmental Science And Engineering Pertain To A Systematic Analysis Of The Natural And Man-Made World Encompassing Various Scientific, Economic, Social And Ethical Aspects. Human Impacts Leading To Large-Scale Degradation Of The Environment Have Aroused Global Concern On Environmental Issues In The Recent Years. The Apex Court Has Hence, Issued Directive To Impart Environmental Literacy To All. In This Book The Fundamental Concepts Of Environmental Science And Engineering Have Been Introduced And Analyzed In A Simple Manner Strictly As Per The Anna University Iind And Iiird Semester Syllabus. Besides The Undergraduate Students Of All Disciplines The Book Will Also Be Useful For Those Appearing In Various Competitive Exams Since Environmental Issues Now Find A Focus In Most Of Such Examinations. The Contents Of The Book Will Be Of Interest To All Educationists, Planners And Policy Makers. Key Features Of The Book Include A Simple And Holistic Approach With Illustrations, Tables And Specific Case Studies Mainly In The Indian Context. The Basic Terminologies Have Been Defined In The Text While Introducing The Topics And Some Useful Terms Mentioned In The Text Have Been Explained In The Glossary For An Easy Grasp By Students Of All Disciplines.

Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

Completely revised and updated, Elements of Environmental Engineering: Thermodynamics and Kinetics, Second Edition covers the applications of chemical thermodynamics and kinetics in environmental processes. Each chapter has been rewritten and includes new examples that better illuminate the theories discussed. An excellent introduction to environmental engineering, this reference stands alone in its multimedia approach to fate and transport modeling and in pollution control design options. Clearly and lucidly written, it provides extensive tables, figures, and data that make it the reference to have on this subject.

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

**Compatibilization of Polymer Blends: Micro and Nano Scale Phase Morphologies, Interphase Characterization and Properties** offers a comprehensive approach to the use of compatibilizers in polymer blends, examining both fundamental and advanced knowledge in the field. The book begins by introducing polymer blends, describing thermodynamics, miscibility, and phase separation, and explaining the main concepts of compatibilization. Other sections cover theoretical approaches for nearly compatible blends, incompatible blends, nanofillers, physical compatibilization, reactive compatibilization, morphological and structural characterization, and physico-mechanical characterization. Finally, key application areas are covered, including biomedical applications, packaging and automobile engineering. While this book will be a highly valuable reference source for academics, researchers and postgraduate students interested in polymer blends, it will also be ideal for anyone involved in the fields of polymer science, polymer chemistry, polymer physics, materials science, scientists, R&D professionals, and engineers involved in the development or engineering of polymer products. Offers detailed and systematic coverage of essential and advanced topics relating to the compatibilization of polymer blends. Presents a critical analysis of the effect of compatibilization on morphology and thermal, mechanical, electrical and viscoelastic properties of polymer blends. Draws on novel studies and state-of-the-art research, discussing the latest issues and developments.

Designed as a text for all undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in environmental health engineering and pollution and control engineering for students of civil engineering, this comprehensive text, now in its Second Edition provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different niche areas of environmental science and engineering. The book covers a wide array of topics, such as natural resources, disaster management, biodiversity, and various forms of pollution, viz. water pollution, air pollution, soil pollution, noise pollution, thermal pollution, and marine pollution, as well as environmental impact assessment and environmental protection. This edition introduces a new chapter on Environment and Human Health. **KEY FEATURES :** Gives in-depth yet lucid analysis of topics, making the book user-friendly. Covers important topics, which are adequately supported by illustrative diagrams. Provides case studies to explore real-life problems. Supplies review questions at the end of each chapter to drill the students in self-study.

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