



PHYSICAL CHEMISTRY

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Subject: **Module - I**

1. A compound with molecular weight about 100 amu contained 60% carbon, 4.44% hydrogen and 35.56% Oxygen. What is its molecular formula?

Ans: $C_4H_4O_2$
2. A sample of polyethylene prepared by free-radical polymerization of ethylene at 400°C has the formula $(C_2H_4)_n$, $(C_2H_3)_m$, $(C_2H_5)_p$. The number of moles per mole of monomer (the sample of polyethylene prepared in this manner was 1.0 mole) is 0.001. What is the value of n ?

Ans: 10
3. A saturated hydrocarbon contains 83.33% carbon. What is its empirical formula? Its molecular formula?

Ans: C_3H_8
4. One of the earliest methods for determining the molecular weight of gases mentioned in chemical analysis is Dumas method (prepared with nitrogen oxides) 83.33% and

(a) If the nitrogenous molecule contains one atom of nitrogen. What is its molecular weight?

(b) If the nitrogenous molecule contains four atoms of nitrogen. What is its molecular weight?
- Ans: (a) 100/83.33 (b) 400/83.33
5. A polymeric substance, tetrafluoroethylene, was first synthesized by the formula $(C_2F_4)_n$, which is a single molecule. The molecular mass progressively polymerizing C_2F_4 in the presence of sodium bearing catalyst first observed as a molecule upon which polymer grew. The first product was known to contain 62.5% C. What is the value of n ? How many molecules contain

(a) 10 fluorine atoms (b) 20 fluorine atoms
6. Another great discovery that the catalyst could reduce a hydrocarbon amount to the other part of the polymer

Ans: (a) 2.7×10^4 (b) 5.4×10^4
7. A polymeric substance tetrafluoroethylene was synthesized with a formula $(C_2F_4)_n$, which is a single molecule. What is the molecular mass of that polymer

Ans: 5.4×10^4

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Research in library and information science in india Kumar P. S. G.,1989 *Deep Eutectic Solvents* Mohammad Jawaid, Indra Bahadur, Prashant Singh, Jamal Akhter Siddique, 2024-11-22 Deep Eutectic Solvents highlights well established research and technology on applications of DESs in corrosion sciences protein chemistry and organic synthesis as well as separation science This book provides state of the art research that will revolutionize modern practices Neoteric solvents have been proposed as a better substitute to these harmful organic solvents and scientists have come up with various neoteric solvents in the last few years like Deep Eutectic solvents DESs DESs are defined as a system formed from a eutectic mixture of Lewis or Br nsted acids and bases with various ionic species whereas ionic liquids ILs consist of a discrete anion and a cation DESs stand out as a greener and cheaper neoteric solvent as compared to ILs DESs are denser than water and fairly polar thus can be utilized as non aqueous substitute to water in many separation processes DESs have very high distribution coefficient of solutes and even dissolves gases and metal oxides selectively They also readily dissolve organic macromolecules thereby becoming useful in pharmacological applications Includes the latest updates application of DESs from synthesis to applications Provides in depth and step by step description of knowledge on synthesis characterization investigation through computational tools and applications in different fields Presents chronological advancements for using industrial scale corrosion inhibitors in modern industrial platforms *The Physics of Semiconductor Devices* R. K. Sharma, D.S. Rawal, 2019-01-31 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community The book discusses the latest developments in the field of III nitrides materials devices compound semiconductors VLSI technology optoelectronics sensors photovoltaics crystal growth epitaxy and characterization graphene and other 2D materials and organic semiconductors *Multidimensional Nanomaterials for Supercapacitors: Next Generation Energy Storage* Sanjeev Verma, Shivani Verma, Saurabh Kumar, Bhawna Verma, 2024-05-31 Multidimensional Nanomaterials for Supercapacitors Next Generation Energy Storage explores the cutting edge advancements in multidimensional nanomaterials for supercapacitor applications addressing key techniques challenges and future prospects in the field The book offers a comprehensive overview of the fundamentals of supercapacitors including electrode materials electrolytes charge storage mechanisms and performance metrics Key Features Comprehensive Coverage 15 referenced chapters cover a wide range of topics including graphene derivatives quantum dots MOFs MXenes and fiber shaped supercapacitors providing a holistic view of the field Cutting Edge Techniques Covers the latest advancements in multidimensional nanomaterials for supercapacitors providing insights into their synthesis properties and applications Future Applications Chapters explore the potential future applications of nanomaterials in energy storage devices offering valuable insights for researchers and practitioners Real

World Case Studies Practical examples and case studies illustrate the application of nanomaterials in supercapacitors enhancing understanding and applicability Challenges and Opportunities Highlights the challenges and limitations associated with nanomaterial based supercapacitors offering information into overcoming barriers and expanding possibilities for future research *TEXT BOOK OF NOVEL DRUG DELIVERY SYSTEM* Dr. Shubhrajit Mantry, Ms. Priyanka Tyagi, Ms. Shilpa

Brahma, Dr. Shailendra Kumar Kawre, Dr. Chakresh Patley, 2025-06-25 The Textbook of Novel Drug Delivery Systems is a comprehensive academic resource designed to provide a thorough understanding of advanced drug delivery mechanisms It serves as an essential guide for pharmacy students researchers and professionals interested in developing more effective and targeted therapies The book begins with an in depth exploration of controlled drug delivery systems introducing key terminology and foundational principles such as diffusion dissolution and ion exchange mechanisms It covers physicochemical and biological properties of drugs critical to sustained release formulations followed by a dedicated chapter on polymers discussing their classification properties and application in drug design The topic of microencapsulation is thoroughly addressed with explanations of methods advantages and pharmaceutical applications of microspheres and microparticles The book also delves into mucosal drug delivery systems emphasizing bioadhesion principles and the formulation of buccal drug delivery platforms It progresses into implantable drug delivery systems detailing the use of implants and osmotic pumps for long term therapeutic effects The section on transdermal drug delivery outlines the structure of the skin permeation enhancers and formulation strategies for achieving systemic drug absorption Gastroretentive systems are explained with emphasis on floating high density and gastroadhesive techniques to increase gastric retention time Readers are introduced to nasopulmonary delivery with practical formulation details on dry powder inhalers metered dose inhalers nasal sprays and nebulizers Targeted drug delivery concepts are thoroughly presented including advanced carriers like liposomes niosomes nanoparticles and monoclonal antibodies The book also includes critical insights into ocular drug delivery focusing on overcoming intraocular barriers using formulations and devices like ocuserts Lastly intrauterine drug delivery systems are examined detailing IUD development advantages and limitations **Value**

Added Products From Bioalgae Based Biorefineries: Opportunities and Challenges Shailendra Kumar Arya, Madhu Khatri, Gursharan Singh, 2024-05-27 This book covers wide aspects of algal technology and algae based biorefinery aspects Algae are the most prevalent primitive and abundant microbes on Earth however the commercialization of algal based value added products is still low due to the negligible dissemination of knowledge flow among the stakeholders and researchers This book provides up to date information on the cultivation of microalgae their harvesting downstream processing and diverse applications It further discusses the macromolecules existing in microalgae such as proteins carbohydrates and lipids poly unsaturated fatty acids peptides exo polysaccharides flavonoids and antioxidants This book also highlights the advantages and some real time challenges before the establishment of sustainable algal based biorefineries Further it

includes clear flow charts and figures in each chapter to aid in interpretation of every technical concept This book motivates readers entrepreneurs and young farmers to exploit easily growing microalgae through cottage to large scale biorefineries and start their own businesses for the production of value added products **Government Gazette** Uttar Pradesh (India),1963-10 Particle Packing Method for Recycled Aggregate Concrete Subhasis Pradhan,Shailendra Kumar,Sudhirkumar V. Barai,2024-02-27 This book highlights the use of commercially available recycled aggregate concrete RAC extracted from multiple construction and demolition sites considering it as a viable alternative to conventional aggregate It further describes the advanced techniques such as scanning electron microscopy nanoindentation thermogravimetric analysis and X ray microtomography shedding light on the deep rooted causes of inferior macro mechanical performance of RAC and the advantages of particle packing method design approach in this regard It then describes the improved properties of RAC with the help of macro mechanical performance studies microstructural characterization and fracture analysis The systematic and in depth presentation of the use of recycled coarse aggregate as an alternative to conventional aggregate for the preparation of structural concrete will guide researchers on subsequent research in RAC and provide assistance to structural engineers and concrete manufacturers for the usage of RAC

Graduate Programs in the Physical Sciences and Mathematics ,1987 **Autophagy and Metabolism** Dhruv Kumar,Shailendra Asthana,2022-08-06 Autophagy and Metabolism Potential Target for Cancer Therapy presents updates on autophagy in cancer metabolism and how it can be used to develop new more efficient treatments Written by experts in the field the book presents recent research and explains how to translate it to the clinical setting Sections discuss tumor cell metabolism and autophagy as therapeutic targets autophagy regulation in cancer signaling pathways in metabolic dysregulation in solid tumors metabolic stress and cell death pathways and the role of the tumor microenvironment In addition topics cover combined targeting autophagy metabolism for cancer therapy and the autophagy effect on immune cell metabolism This will be a valuable resource for researchers oncologists graduate students and members of the biomedical field who are interested in learning more about the interaction between autophagy and cancer metabolism Presents valuable and updated information on the mechanisms of autophagy in cancer metabolism Discusses the various metabolic pathways linked with autophagy that can be a major target for chemotherapeutic strategies Explains how autophagy supports tumor growth by activating metabolic phenotypes in cancer cells and the therapeutic interventions available to halt the process

Algal Bioengineering and Microbial Synergy to Green Remediation Shailendra Kumar Arya,Madhu Khatri,Gursharan Singh,Sudarshan Sahu,2025-09-24 This comprehensive book delves into the synergy between algal bioengineering and microbial processes revealing their potential to mitigate environmental impact and foster a sustainable future Through a meticulous blend of theoretical insights and practical applications this book provides readers with a holistic understanding of algal microbial consortia It scrutinizes the latest technological advancements in bioreactor design offering real world case

studies that showcase successful implementations of these innovative solutions Readers will gain valuable knowledge on the economic and regulatory landscapes shaping this field equipping them to navigate and influence the industry effectively Authored by leading experts this book integrates perspectives from biology engineering and environmental science making it an essential resource for researchers industry professionals and policymakers It addresses critical challenges and presents actionable strategies for sustainable waste remediation bridging the gap between theory and practice Whether readers are an environmental scientist biotechnologist engineer or sustainability manager this book offers a treasure trove of insights and practical guidance Discover how algal bioengineering and microbial synergy can revolutionize waste management and contribute to a greener more sustainable future Open the door to innovative solutions and join the movement towards an eco friendly industrial paradigm with Utilizing Algal Bioengineering and Microbial Synergy to Green Industry for Sustainable Waste Remediation

Binding Materials for Sustainable Construction Nakshatra Bahadur Singh,Raju Goyal,Bernhard Middendorf,2025-06-27 Binding Materials for Sustainable Construction brings together a wealth of research driven knowledge focused on innovative ways to develop and use environmentally friendly binders as alternative replacements for Portland cement in the production of concrete and mortar The volume includes comprehensive coverage of the latest and most impactful developments and applications of concrete mixes obtained with geopolymers bio based materials chemical and mineral admixtures nanomaterials and waste along with discussions on properties testing techniques carbon footprint minimization and the marked effects of artificial intelligence and machine learning to revolutionize the industry without skirting considerations related to costs versus environmental viability quality safety controls and much more To contribute to the in depth investigations into such a variety of technically and ecologically efficient binding materials the editors have selected experts from educational institutions research organizations and manufacturing companies across the globe in a conscious effort to add diversity to the content and points of view on the subject matter and also to unambiguously prove the interest that both academic and industry communities worldwide show in driving forward endeavors related to sustainable development Covers a wide range of binding materials providing detailed information on new functionalities and mixed design techniques Reviews primary literature of the current state of the art enriching it by offering a comprehensive overview of cutting edge products and solutions Outlines the benefits of using environmentally friendly binding materials with discussions on prospects and potential research directions

Semiconductors and Electronic Materials Andreas Mandelis,Peter Hess,2000 Semiconductors and electronic materials have benefitted from photoacoustic and photothermal techniques since the late 1970s This volume the fourth in a series on photothermal and photoacoustic science and technology PPST presents a comprehensive review of the diverse progress made in PPST of semiconductors and electronic materials during the 1990s The 10 chapters review leading research activities in several subfields of PPST These include applications of novel analytical and or experimental techniques to traditional semiconductor materials and devices as well as applications

of conventional techniques to novel materials and devices As with other volumes in the series this text is useful as a reference for practising scientists and engineers and as a supplement to upper level graduate courses in various areas of PPST and its subfields

Recent Advances in Power Electronics and Drives Shailendra Kumar,Bhim Singh,Vijay Kumar Sood,2023-01-16 This book presents select proceedings of the Electric Power and Renewable Energy Conference 2022 EPREC 2022 It provides rigorous discussions case studies and recent developments in the emerging areas of power electronics especially power inverters and converter electrical drives regulated power supplies operation of FACTS and HVDC etc The readers would be benefited from enhancing their knowledge and skills in these domain areas The book is a valuable reference for beginners researchers and professionals interested in advancements in power electronics and drives

Corrosion Prevention Nanoscience Berdimurodov Elyor Tukhlievich,Chandrabhan Verma,2023-07-24 Recently surface engineered and modified nanomaterials have been developed as corrosion inhibitors for different metals alloys in coating and solution phases This book covers current emerging trends and applications in nanomaterials and nanotechnologies and their applications in corrosion prevention It offers synthesis surface modification for enhanced dispersibility and protection composite formation and their anticorrosive applications

Advances in Manufacturing Systems Shailendra Kumar,K. P. Rajurkar,2021-02-25 This book presents the select proceedings of the International Conference on Recent Advances in Manufacturing RAM 2020 The volume focuses on latest research trends in manufacturing systems such as CAE CAD CAM robotics and automation reverse engineering resource planning and simulation computer integrated manufacturing CIM systems product life cycle management collaborative engineering process monitoring control and traceability technologies supply chain management environment risk analysis and manufacturing systems of renewable energy devices The topics covered also include emerging fields of the fourth industrial revolution such cyber physical systems and cyber security and wireless sensors and sensor networks for manufacturing This book will be of interest to researchers and practitioners interested in latest developments in the field of manufacturing systems

Nanomedicine, Nanotheranostics and Nanobiotechnology Rishi Paliwal,Shivani Rai Paliwal,2024-09-30 Nanosized particles explored for therapeutics and diagnosis related research areas need the latest updated information for budding researchers as well as academicians Nanomedicine nanotheranostics and nanobiotechnology have been contemporary technological tools for diverse biomedical pharmaceutical and diagnostic solutions The present book is divided into two sections The first section is dedicated to exclusive book chapters related to nanomedicine such as its history regulatory aspects scale up and regulatory toxicology Additionally this section includes chapters focusing on the application domain of nanomedicine for targeted cancer therapy rheumatoid arthritis management psoriasis treatment ocular delivery topical applications oral bioavailability enhancement and pulmonary delivery The second section is composed of chapters in the area of nanotheranostics and applications of nanobiotechnology In brief the latest topics such as gold nanoparticles in diagnostics and therapy nanoparticles for siRNA

delivery carbon nanotubes for gene delivery nanoparticles for vaccine delivery nanobiotechnology in cell based nanomedicines nanotechnology in regenerative medicine and nanocarriers in delivery of proteins and peptides are compiled

KEY FEATURES A total of 26 emerging topics are covered in the book on cutting edge research areas at the multi disciplinary level The chapters focus on fundamentals and applications making the book attractive for beginners as well as experts The chapters are written by well known experts of the field in a simple scientific style with figures schemes and illustrations

Technical Series Bulletin United States. Agency for International Development. Office of Agriculture, 1975

Commonwealth Universities Yearbook, 1993 A directory to the universities of the Commonwealth and the handbook of their association

Marine Antioxidants Se-Kwon Kim, Kyung-Hoon Shin, Jayachandran Venkatesan, 2022-12-04 Marine Antioxidants Preparations Syntheses and Applications provides the most updated and comprehensive knowledge on utilizing marine derived substances for cosmeceutical pharmaceutical and nutraceutical developments The book delivers the isolation procedures and biological activity of marine derived antioxidant substances as discussed by international experts on antioxidant material from actinobacteria crustaceans diatoms fish microalgae microbes and mangrove associated marine organisms and seagrasses In addition the book details marine derived bioactive antioxidants substances in the form of proteins peptides polysaccharides and lipids Finally the book provides the latest information on the mechanistic pathways of antioxidant substances with various diseases and nutritional perspectives This is an essential resource for marine biotechnologists and marine biologists who want to better understand isolation procedures and antioxidant applications Researchers interested in pharmaceutical nutrients polymer science and cosmeceuticals industries scientists as well as students and academics will also benefit from this book Explores under utilized marine products for commercial applications Offers isolated information and biological applications of each identified marine antioxidant Discusses the latest approaches to treatments of diseases such as diabetes arthritis and cancer using marine resources

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