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PRINCIPLES AND CHEMICAL APPLICATIONS FOR B.SC.(HONS) POST GRADUATE STUDENTS OF ALL INDIAN UNIVERSITIES AND COMPETITIVE EXAMINATIONS. Explore this comprehensive discussion of the foundational and advanced topics in plasmonic catalysis from two leaders in the field Plasmonic Catalysis: From Fundamentals to Applications delivers a thorough treatment of plasmonic catalysis, from its theoretical foundations to myriad applications in industry and academia. In addition to the fundamentals, the book covers the theory, properties, synthesis, and various reaction types of plasmonic catalysis. It also covers its applications in reactions including oxidation, reduction, nitrogen fixation, CO<sub>2</sub> reduction,

and more. The book characterizes plasmonic catalytic systems and describes their properties, tackling the integration of conventional methods as well as new methods able to unravel the optical, electronic, and chemical properties of these systems. It also describes the fundamentals of controlled synthesis of metal nanoparticles relevant to plasmonic catalysis, as well as practical examples thereof. Plasmonic Catalysis covers a wide variety of other practical topics in the field, including hydrogenation reactions and the harvesting of LSPR-excited charge carriers. Readers will also benefit from the inclusion of: A thorough introduction to plasmonic catalysis, a theory of plasmons for catalysis and mechanisms, as well as optical properties of plasmonic-catalytic nanostructures An exploration of the synthesis of plasmonic nanoparticles for photo and electro catalysis, as well as plasmonic catalysis towards oxidation reactions and hydrogenation reactions Discussions of plasmonic catalysis for multi-electron processes and artificial photosynthesis and N<sub>2</sub> fixation An examination of control over reaction selectivity in plasmonic catalysis Perfect for catalytic chemists, materials scientists, photochemists, and physical chemists, Plasmonic Catalysis: From Fundamentals to Applications will also earn a place in the libraries of physicists who seek a one-stop resource to enhance their understanding of applications in plasmonic catalysis. High purity, thin metal coatings have a variety of important commercial applications, for example, in the microelectronics industry, as catalysts, as protective and decorative coatings as well as in gas-diffusion barriers. This book offers detailed, up-to-date coverage of the chemistry behind the vapor deposition of different metals from organometallic precursors. In nine chapters, the CVD of metals including aluminum, tungsten, gold, silver, platinum, palladium, nickel, as well as copper from copper(I) and copper(II) compounds is covered. The synthesis and properties of the precursors, the growth process, morphology, quality and adhesion of the resulting films as well as laser-assisted, ion-assisted and plasma-assisted methods are discussed. Present applications and prospects for future developments are summarized. With ca. 1000 references and a glossary, this book is a unique source of in-depth information. It is indispensable for chemists, physicists, engineers and materials scientists working with metal-coating processes and technologies. From Reviews: 'I highly recommend this book to anyone interested in learning more about the chemistry of metal CVD.' J. Am Chem. Soc. 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. *Gold Nanoparticles for Physics, Chemistry and Biology* offers an overview of recent research into gold nanoparticles, covering their discovery, usage and contemporary practical applications. This Second Edition begins with a history of over 2000 years of the use of gold nanoparticles, with a review of the specific properties which make gold unique. Updated chapters include gold nanoparticle preparation methods, their plasmon resonance and thermo-optical properties, their catalytic properties and their future technological applications. New chapters have been included, and reveal the growing impact of plasmonics in research, with an introduction to quantum plasmonics, plasmon assisted catalysis and electro-photon conversion. The growing field of nanoparticles for health is also addressed with a study of gold nanoparticles as radiosensibiliser for radiotherapy, and of gold nanoparticle functionalisation. This new edition also considers the relevance of bimetallic nanoparticles for specific applications. World-class scientists provide the most up-to-date findings for an introduction to gold nanoparticles within the related areas of chemistry, biology, material science, optics and physics. It is perfectly suited to advanced level students and researchers looking to enhance their knowledge in the study of gold nanoparticles. Dendrimers, hyperbranched macromolecules, emerged just few decades ago but show promising potential as drug delivery nanocarriers, theranostic agents and gene vectors; in the pharmaceutical research and innovation area as well as in other healthcare applications. Although tremendous advancements have been made in dendrimer chemistry and their applications since their emergence, the synthesis, development and design of pure and safe dendrimer-based products have been a major challenge in this area. This book, edited by well-known researchers in the area of nanomaterials and drug-based drug delivery applications, exhaustively covers the nanotechnological aspects, concepts, properties, characterisation, application, biofate and regulatory aspects of dendrimers. It includes sixteen vivid chapters by renowned formulators, researchers and academicians from all over the world, highlighting their specialised areas of interest in the fields of chemistry, biology, pharmacy and nanomedicine. Features:

- Highlights dendrimers' advancements in nanomedicine in the development of safe healthcare and biotechnological products
- Covers physicochemical aspects, biofate, drug delivery aspects and gene therapy using dendrimers
- Covers biomedical application of dendrimers in the field of biological sciences
- Gives examples of dendrimer-guest interaction chemistry

*Dendrimers in Nanomedicine: Concept, Theory and Regulatory Perspectives* provides the comprehensive overview of the latest research

efforts in designing, optimising, development and scale-up of dendrimer-mediated delivery systems. It analyses the key challenges of synthesis, design, molecular modelling, fundamental concepts, drug delivery aspects, analytical tools and biological fate as well as regulatory consideration to the practical use of dendrimer application. Dr. Neelesh Kumar Mehra Assistant Professor of Pharmaceutics in the Department of Pharmaceutics at the National Institute of Pharmaceutical Education & Research (NIPER), Hyderabad, India. He has authored more than sixty peer-reviewed publications in highly reputed international journals, as well as book chapters and contributions on two patents. Dr. Mehra has 11 years of rich research and teaching experience in the formulation and development of complex, innovative biopharmaceutical products including micro- and nanotechnologies for regulated markets. Dr. Keerti Jain Assistant Professor of Pharmaceutics in the Department of Pharmaceutics, NIPER, Raebareli, India. For more than 10 years, she has been actively engaged in formulation and development of nanomedicines. Dr. Jain has supervised masters and doctoral pharmaceutics students in their research works which have been published in high quality, good impact factor journals. She has also authored more than 60 international manuscripts in peer reviewed high impact journals. In 2019, she was awarded the prestigious ICMR-Amir Shakuntala Award. For years, concepts and models relevant to the fields of molecular electronics and organic electronics have been invented in parallel, slowing down progress in the field. This book illustrates how synthetic chemists, materials scientists, physicists, and device engineers can work together to reach their desired, shared goals, and provides the knowledge and intellectual basis for this venture. *Supramolecular Materials for Opto-Electronics* covers the basic principles of building supramolecular organic systems that fulfil the requirements of the targeted opto-electronic function; specific material properties based on the fundamental synthesis and assembly processes; and provides an overview of the current uses of supramolecular materials in opto-electronic devices. To conclude, a "what's next" section provides an outlook on the future of the field, outlining the ways overarching work between research disciplines can be utilised. Postgraduate researchers and academics will appreciate the fundamental insight into concepts and practices of supramolecular systems for opto-electronic device integration. Sem I 1 basic principles & Concepts of Organic Chemistry 2 Classification of Organic Compounds 3 Structure Property Relationship 4 Classes of Reactions & Classes of Reagents 5 Reaction Intermediates 6 Acidity & basicity 7 Alkanes 8 Alkenes & Alkynes 9 Benzene & Aromaticity Sem II Aldehydes 7 Ketones 2 Phenols 3 Silfonic Acids 4 Alcohols & ethers 5 Amines 6 Cyanides & Isocyanides 7 Esters & Amides 8 Alkyl halides 9 Carboxylic Acids (Aromatic & Aliphatic) Index This book provides the whole spectrum of polysaccharides from basic concepts to commercial market applications. Chapters cover various types of sources, classification, properties, characterization, processing, rheology and fabrication of polysaccharide-based materials

and their composites and gels. The applications of polysaccharides include in cosmetics, food science, drug delivery, biomedicine, biofuel production, marine, packaging, chromatography and environmental remediation. It also reviews the fabrication of inorganic and carbon nanomaterials from polysaccharides. The book incorporates industrial applications and will fill the gap between the exploration works in the laboratory and viable applications in related ventures. 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. This book is the result of teaching a one semester course in Applied Chemistry (Chemistry 224) to second year engineering students for over 15 years. The contents of the course evolved as the interests and needs of both the students and Engineering Faculty changed. All the students had at least one semester of Introductory Chemistry and it has been assumed in this text that the students have been exposed to Thermodynamics, Chemical Kinetics, Solution Equilibrium, and Organic Chemistry. These topics must be discussed either before starting the Applied subjects or developed as required if the students are not familiar with these prerequisites. Engineering students often ask "Why is another Chemistry course required for Non-Chemical Engineers?" There are many answers to this question but foremost is that the Professional Engineer must know when to consult a Chemist and be able to communicate with him. When this is not done the consequences can be a disaster due to faulty design, poor choice of materials or inadequate safety factors. Examples of blunders abound and only a few will be described in an attempt to convince the student to take the subject matter seriously. Organoselenium shows incredible promise in medicine, particularly cancer therapy. This book discusses organoselenium chemistry and biology in the context of its therapeutic potential, taking the reader through synthetic techniques, bioactivity and therapeutic applications. Divided into three sections, the first section describes synthetic advances in bioactive selenium compounds, revealing how organoselenium compound toxicity, redox properties and specificity can be further tuned. The second section explains the biophysics and biochemistry of organoselenium compounds, as well as selenoproteins. The final section closes with several chapters devoted to therapeutic and medicinal applications of organoselenium compounds, covering radioprotectors, anticancer agents and antioxidant behaviour. With contributions from leading global experts, this book covers recent advances in the field and is an ideal reference for those researching organoselenium compounds. With escalating concerns over the current state of our planet, the realization to work toward reducing our environmental footprint is gaining momentum. Scientists have realized that green chemistry is the key to reduce waste, rendering healthy environment, and improving human health. The 12 principles

of green chemistry are the basic tenets that require understanding at the most fundamental level and implementation to promoting sustainable synthesis. This book discusses innovations in the form of greener technologies (superior green catalysts, alternate reaction media, and green energy sources) and elaborates their tremendous potential in combating the critical global challenges on the horizon. It intends to empower and educate students to grasp the key concepts of green chemistry, think out of the box and come up with new ideas, and apply the basic concepts in greening the world. It extensively covers the goals of the United Nation's 2030 Agenda of Sustainable Development, which can be successfully achieved with the aid of green chemistry. It also highlights cutting-edge greener technologies such as biomimicry, miniaturization, and continuous flow. Edited by two active green chemists, the book presents in-depth knowledge of this field and is extremely helpful for undergraduate, graduate, and postgraduate readers, as well as academic and industrial researchers. Glycostructures play a highly diverse and crucial role in a myriad of organisms and systems in biology, physiology, medicine, and bioengineering and technology. Only in recent years have the tools been developed to partly understand the highly complex functions and chemistry behind them. In this set the editors present up-to-date information on glycostructures, their chemistry and chemical biology, in the form of a comprehensive survey. The text is accompanied by over 2000 figures, chemical structures and reaction schemes and more than 9000 references. The accompanying CD-ROM enables, besides text searches, searches for structures, schemes, and other information. Conceptual Chemistry Volume-I For Class XII A book on Conceptual Chemistry Chemistry for Sustainable Development is a collection of selected papers by the participants of the International Conference on Pure and Applied Chemistry (ICPAC 2010) on the theme of "Chemistry for Sustainable Development" held in Mauritius in July 2010. In light of the significant progresses and challenges in the development and implementation of green and sustainable chemistry, this volume reviews the recent results generated by a more efficient use of resources to minimize carbon footprints, to foster the eradication or minimisation of solvent use in chemistry, and to deliver processes which lead to increased harmony between chemistry and the environment. Chemistry for Sustainable Development is written for graduates, postgraduates, researchers in industry and academia who have an interest in the fields ranging from fundamental to applied chemistry. Conceptual Chemistry Volume I For Class XI Water And Its Industrial Applications | Fuels And Combustion | Lubricants | Cement

And Refractories| Polymers | Instrumental Techniques In Chemical Analysis | Water Analysis Techniques | Question Bank Advances in Chemical Engineering, Volume 19 reflects the major impact of chemical engineering on medical practice, with chapters covering polymer systems for controlled release, receptor binding and signaling, and transport phenomena in tumors. Other key topics include oil refining, pollution prevention in engineering design, and atmospheric dynamics. Surfactants are often completely invisible to us and yet they are present in almost every chemical that we use in our daily life. They are found in toothpastes, cosmetics, sunscreens, mayonnaise, detergents, and an array of cleaning products. Traditional surfactants are known to have adverse environmental impacts spurring research into eco-friendly and cost-effective surfactants from renewable resources. Surfactants from Renewable Raw Materials examines the class of surfactants synthesized using plant-based raw materials detailing their properties, applications, bioavailability, and biodegradability. The concluding chapter reviews patent activity over the last decade. Additional features include: Addresses the tremendous variation found in the raw materials used to synthesize commercially available surfactants. Explores the selection of raw materials based upon the desired hydrophobic group or hydrophilic group to be incorporated into the product. Examines the characteristics and medicinal applications of pulmonary surfactants in preterm babies as well as their probable contribution in COVID-19. Discusses the biodegradability of surfactants to assist with the determination of truly green surfactants. This comprehensive reference will prove indispensable for professional and academic researchers creating or working with bio-based surfactants. 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 In this latest Seventh Edition, five New Chapters (No. 28, 29, 33, 36 and 37) have been added to enhance the scope and utility of the book: three chapters pertain to Bioenergetics and Metabolism (Biosynthesis of Nucleotides, Degradation of Nucleotides, Mineral Metabolism) and two to Nutrition Biochemistry (Principles of Nutrition, Elements of Nutrition). In fact, all the previously-existing 35 chapters have been thoroughly revised, enlarged and updated in the light of recent advancements and the ongoing researches being conducted the world over. About the Book: This book Engineering Mathematics-II is

designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou. During the last few decades, research into natural products has advanced tremendously thanks to contributions from the fields of chemistry, life sciences, food science and material sciences. Comparisons of natural products from microorganisms, lower eukaryotes, animals, higher plants and marine organisms are now well documented. This book provides an easy-to-read overview of natural products. It includes twelve chapters covering most of the aspects of natural products chemistry. Each chapter covers general introduction, nomenclature, occurrence, isolation, detection, structure elucidation both by degradation and spectroscopic techniques, biosynthesis, synthesis, biological activity and commercial applications, if any, of the compounds mentioned in each topic. Therefore it will be useful for students, other researchers and industry. The introduction to each chapter is brief and attempts only to supply general knowledge in the particular field. Furthermore, at the end of each chapter there is a list of recommended books for additional study and a list of relevant questions for practice. A book on Conceptual Chemistry Covers the symbols of various elements, formulae of elements and compounds and their names; describes elements in terms of symbols and compounds in terms of formulae; chemical equations from world equations and vice-versa; and more. Based upon the latest developments in the field of medicinal chemistry, detailed synthesis mechanism of drugs and their mode of action inside the body, this book treats many aspects of organic medicinal compounds; their discovery, action, and development into clinical agents. All the principles discussed in the book are based on fundamental organic chemistry, physical chemistry and biochemistry. Medicinal chemistry plays a key role in pharmaceutical research and new drug discovery; the structural modification may help in increasing the potency of desired active and/or to decrease the intensity of adverse effects. This book presents a review of basic principles of medicinal chemistry and to explain the effects of structural modification of the lead nucleus on the selectivity of action, duration of action and frequency of adverse effect. An effort has been made to stress upon basic pharmacology in detail wherever needed.