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### KEY=PRASAD - ANNA SINGH

**CHEMICAL PROCESS CALCULATIONS** *PHI Learning Pvt. Ltd.* The present textbook is written for undergraduate students of chemical engineering as per the syllabus framed by AICTE curriculum. It explains the basic chemical process principles in a lucid manner. SI units, chemical stoichiometry and measures of composition, behaviour of gases, vapour pressure of pure substances, and humidity and saturation are covered in detail. In addition, mass and energy balances of chemical processes have also been described. Chemical processes without chemical reactions include fluid flow, mixing, evaporation distillation, absorption and stripping, liquid-liquid extraction, leaching and washing, adsorption, drying, crystallization and membrane separation process. **SALIENT FEATURES** • Description of all concepts and principles with a rich pedagogy for easy understanding • Correct use of SI units • Over 270 solved examples for understanding the basic concepts • Answers to all chapter-end numerical problems for checking the accuracy of calculations **TARGET AUDIENCE** • BE/B.Tech (Chemical Engineering) Objective Type Questions and Answers in Chemical Engineering Project Management - The Complete Process *Vikas Publishing House* This textbook covers the entire gamut of project scoping, identification, development and appraisal and is primarily designed to meet the requirements of postgraduate students of management and engineering education. Researchers, consultants, policy makers and professionals in project management will find it a good body of knowledge as a reference source. The objective of the book is to provide a multidisciplinary grounding to the readers so that they can develop all the skills and competencies required to view or manage the entire project management process as an integrated whole. The book has been written in an easy-to-understand style and uses live case studies of renewable energy projects to illustrate the concepts, so that the students/readers understand them in the context of the real world. Though based on renewable energy projects, majority of the concepts explained in the book are applicable to other industrial projects equally - detailed guidance and notes on this aspect is given appropriately in the book. **Encyclopedia of Chemical Processing and Design Volume 36 - Phosphorus to Pipeline Failure: Subsidence Strains** *CRC Press* "Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries." **Chemical Process Calculations Piping Design Handbook** *CRC Press* This encyclopedic volume covers almost every phase of piping design - presenting procedures in a straightforward way.;Written by 82 world experts in the field, the **Piping Design Handbook**: details the basic principles of piping design; explores pipeline shortcut methods in an in-depth manner; and presents expanded rules of thumb for the piping design engineer.;Generously illustrated with over 1575 figures, display equations, and tables, the **Piping Design Handbook** is for chemical, mechanical, process, and equipment design engineers. **International Books in Print Guide to RRB Junior Engineer Stage II Exam - Physics, Chemistry, General Awareness, Basics of Computers, Environment & Pollution Control** *Disha Publications* The book Guide to RRB Junior Engineer Stage II Online Exam has 4 sections (common to all streams): General Awareness, Physics & Chemistry, Basics of Computers and Applications and Pollution Control. • Each section is further divided into chapters which contains theory explaining the concepts involved followed by MCQ exercises. • The book provides the past 2014 & 2015 Solved Questions. • The detailed solutions to all the questions are provided at the end of each chapter. **Engineered Nanomaterials for Innovative Therapies and Biomedicine** *Springer Nature* Research on biomedical applications of nanomaterials has exhibited the rapidly evolving field of biomedical sciences by showing how effective they are in treatment. These particles hold considerable potential for biomedical applications. Work is ongoing, and the results suggest a possibility for a sustainable future for nanomaterials in both therapeutic and biomedical fields. This book highlights current and emerging applications, taking global research findings into consideration. We believe the focus on the identification and role of nanomaterial applications in therapeutic and biomedical sciences can lead to novel solutions in the fields. The chapters of this book are disseminated in a manner that can be readily adopted as sources for new and further study. The editors integrate advanced texts in their research that help graduate students, researchers and professors. Additionally, we believe that international readers will be able to make use of this book for reference purposes. **Indian Books in Print A Widening Sphere Evolving Cultures at MIT** *MIT Press* How MIT's first nine presidents helped transform the Institute from a small technical school into a major research university. MIT was founded in 1861 as a polytechnic institute in Boston's Back Bay, overshadowed by its neighbor across the Charles River, Harvard University. Harvard offered a classical education to young men of America's ruling class; the early MIT trained men (and a few women) from all parts of society as engineers for the nation's burgeoning industries. Over the years, MIT expanded its mission and ventured into other fields—pure science, social science, the humanities—and established itself in Cambridge as Harvard's enduring rival. In **A Widening Sphere**, Philip Alexander traces MIT's evolution from polytechnic to major research institution through the lives of its first nine presidents, exploring how the ideas, outlook, approach, and personality of each shaped the school's intellectual and social cultures. Alexander describes, among other things, the political skill and entrepreneurial spirit of founder and first president, William Rogers; institutional growing pains under John Runkle; Francis Walker's campaign to broaden the curriculum, especially in the social sciences, and to recruit first-rate faculty; James Crafts, whose heart lay in research, not administration; Henry Pritchett's thwarted effort to merge with Harvard (after which he decamped to the Carnegie Foundation for the Advancement of Teaching); Richard Maclaurin's successful strategy to move the institute to Cambridge, after considering other sites (including a golfclub in Brighton); the brilliant, progressive Ernest Nichols, who succumbed to chronic illness and barely held office; Samuel Stratton's push towards a global perspective; and Karl Compton's vision for a new kind of Institute—a university polarized around science and technology. Through these interlocking yet independent portraits, Alexander reveals the inner workings of a complex and dynamic community of innovators. **World Guide to Universities - Internationales Universitäts-Handbuch** *Proceedings of the Indian Science Congress* **Environmental Technology and Sustainability** *Physical, Chemical and Biological Technologies for Clean Environmental Management* *Elsevier* **Environmental Technology and Sustainability: Physical, Chemical and Biological Technologies for Clean Environmental Management** provides a dependable source of information on the fundamental scientific evidence involved in environmental protection and sustainable development. The book provides the basic natural sciences that underpin the understanding, development and application of environment technologies that support a clean inhabitable world that includes environmental technologies and sustainable, renewable energy systems. It considers the science and technology for environmental benefits, including the development of both smarter, cleaner technologies for environmental protection, conservation, and more. Provides methods and processes for CO2 Sequestration Focuses on technologies for reducing greenhouse gases and for biofuel production **Outlines issues surrounding contaminated water and provides solutions for water management** **Describes problems facing air pollution, including sources and mitigation** **Includes contaminated soil management** **Computational Quantum Chemistry** *CRC Press* **Computational Quantum Chemistry, Second Edition**, is an extremely useful tool for teaching and research alike. It stipulates information in an accessible manner for scientific investigators, researchers and entrepreneurs. The book supplies an overview of the field and explains the fundamental underlying principles. It also gives the knowledge of numerous comparisons of different methods. The book consists of a wider range of applications in each chapter. It also provides a number of references which will be useful for academic and industrial researchers. It includes a large number of worked-out examples and unsolved problems for enhancing the computational skill of the users. **Features** **Includes comprehensive coverage of most essential basic concepts** **Achieves greater clarity with improved planning of topics and is reader-friendly** **Deals with the mathematical techniques which will help readers to more efficient problem solving** **Explains a structured approach for mathematical derivations** **A reference book for academicians and scientific investigators** **Ram Yatan Prasad, PhD, DSc (India), DSc (hc) Colombo**, is a Professor of Chemistry and former Vice Chancellor of S.K.M University, Jharkhand, India. **Pranita, PhD, DSc (hc) Sri Lanka, FICS**, is an Assistant Professor of Chemistry at Vinoba Bhawe University, India. **Internationales Universitäts-Handbuch Afrika; Asien; Ozeanien; Register** *New York : R. R. Bowker Company* **Directory - The Institution of Engineers (India). Between The Lines A Railman's Journey** *Notion Press* **A retired railway officer recalls events in his life and his career spanning the period before the country gained freedom from British rule; through turbulent times in Eastern India, wars with a neighbouring country, imposition of the Emergency with glimpses of working conditions in a public sector corporation and life in a West African country. The events are retold engagingly.** **Technical Manpower Handbook of Universities** *Atlantic Publishers & Dist* **The Most Authentic Source Of Information On Higher Education In India** **The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country.** **In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University.** **It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.** **Nanostructures for Antimicrobial and Antibiofilm Applications** *Springer Nature* **In the pursuit of technological advancement in the field of biotechnology and pharmaceutical industries to counteract health issues, bacterial infections remain a major cause of morbidity and mortality. The ability of bacterial pathogens to form biofilms further agglomerates the situation by showing resistance to conventional antibiotics. To overcome this serious issue, bioactive metabolites and other natural products were exploited to combat bacterial infections and biofilm-related health consequences. Natural products exhibited promising results in vitro, however; their efficacy in in vivo conditions remain obscured due to their low-solubility, bioavailability, and biocompatibility issues. In this scenario, nanotechnological interventions provide a multifaceted platform for targeted delivery of bioactive compounds by slow and sustained release of drug-like compounds. The unique physico-chemical properties, biocompatibility and eco-friendly nature of bioinspired nanostructures has revolutionized the field of biology to eradicate microbial infections and biofilm-related complications. The green-nanotechnology based metal and metal oxide nanoparticles and polymeric nanoparticles have been regularly employed for antimicrobial and antibiofilm applications without causing damage to host tissues. The implications of these nanoparticles toward achieving sustainability in agriculture by providing systemic resistance against a variety of phytopathogens therefore plays crucial role in growth and crop productivity. Also the advent of smart and hybrid nanomaterials such as metal-based polymer nanocomposites, lipid-based nanomaterials and liposomes have the inherent potential to eradicate bacterial biofilm-related infections in an efficient manner. The recent development of carbon-based nanomaterials such as carbon nanotubes (CNTs) and silica based nanomaterials such as mesoporous silica nanoparticles (MSNs) also exploit a target of dreadful healthcare conditions such as cancer, immunomodulatory diseases, and microbial infections, as well as biofilm-related issues owing to their stability profile, biocompatibility, and unique physio-chemical properties. Recently novel physical approaches such as photothermal therapy (PTT) and antimicrobial photodynamic therapy (aPDT) also revolutionized conventional strategies and are**

engaged in eradicating microbial biofilm-related infections and related health consequences. These promising advancements in the development of novel strategies to treat microbial infections and biofilm-related multidrug resistance (MDR) phenomenon may provide new avenues and aid to conventional antimicrobial therapeutics. 21st Century Homestead: Sustainable Agriculture II: Farming and Natural Resources *Lulu.com* All-India Civil List; a Complete Directory of the Indian Civil and Administrative Services and Other Higher Services Under the Union and the State Governments *Microbial Biosurfactants Preparation, Properties and Applications Springer Nature* Microbial biosurfactant compounds are a group of structurally diverse molecules produced by microorganisms, and are mainly categorized according to their chemical structure. The diversity of microbial biosurfactants makes them versatile and means that they offer a range of capabilities, while at the same time being economically sustainable. As such, they have potential applications in environmental processes, as well as in food, biomedicine and other industries. This book discusses innovative approaches and cutting-edge research that utilize the various properties of biosurfactants. Drawing on research from around the globe, it provides an up-to-date review of biosurfactant applications and their importance in fields such as medicine, gene therapy, immunotherapy, antimicrobial bioremediation and agriculture. It also discusses their anti-adhesive properties. The book will appeal to academics and researchers in the field of microbiology, as well as policymakers. It also serves as additional reading material for undergraduate and graduate students of agriculture, ecology, soil science, and environmental sciences. Comprehensive Dissertation Index Ten-year Cumulation, 1973-1982 Advances in RAMS Engineering In Honor of Professor Ajit Kumar Verma on His 60th Birthday *Springer Nature* This book surveys reliability, availability, maintainability and safety (RAMS) analyses of various engineering systems. It highlights their role throughout the lifecycle of engineering systems and explains how RAMS activities contribute to their efficient and economic design and operation. The book discusses a variety of examples and applications of RAMS analysis, including: • software products; • electrical and electronic engineering systems; • mechanical engineering systems; • nuclear power plants; • chemical and process plants and • railway systems. The wide-ranging nature of the applications discussed highlights the multidisciplinary nature of complex engineering systems. The book provides a quick reference to the latest advances and terminology in various engineering fields, assisting students and researchers in the areas of reliability, availability, maintainability, and safety engineering. Eastern Philosophy *Hachette UK* A magisterial overview of the philosophies of the East. 'The time has come for global philosophy to move beyond the model where the West is at the centre of radiating spokes of comparison.' Challenging the notion that Western philosophy is the best or only yardstick against which to judge the so-called 'non-Western' philosophies, Chakravarthi Ram-Prasad sets up a lively debate in which the great thought systems of the East are engaged very much in their own terms. The author's impressive sweep takes him through South Asia east to China and Japan, encompassing 3000 years of philosophy and including the ancient philosophies of India, Jainism, Buddhism, Daoism and Confucianism. At the same time, Ram-Prasad dispels the romantic illusion that there is some common mystical 'wisdom tradition' that binds together the cultures of the East. His aim is to give a sense of the diversity and depth of these philosophical cultures, as well as their sophistication and originality; and to make comparisons between them to illuminate their varied yet potentially universal appeal. Urban Land Use and Planning Study with reference to Ganga-Ghaghra Doab East Region, eastern Uttar Pradesh. World Directory of Crystallographers And of Other Scientists Employing Crystallographic Methods *Springer Science & Business Media* A brief historical account of the background leading to the publication of the first four editions of the World Directory of Crystallographers was presented by G. Boom in his preface to the Fourth Edition, published late in 1971. That edition was produced by traditional typesetting methods from compilations of biographical data prepared by national Sub-Editors. The major effort required to produce a directory by manual methods provided the impetus to use computer techniques for the Fifth Edition. The account of the production of the first computer assisted Directory was described by S.C. Abrahams in the preface of the Fifth Edition. Computer composition, which required a machine readable data base, offered several major advantages. The choice of typeface and range of characters was flexible. Corrections and additions to the data base were rapid and, once established, it was hoped updating for future editions would be simple and inexpensive. The data base was put to other Union uses, such as preparation of mailing labels and formulation of lists of crystallographers with specified common fields of interest. The Fifth Edition of the World Directory of Crystallographers was published in June of 1977, the Sixth in May of 1981. The Subject Indexes for the Fifth and Sixth Editions were printed in 1978 and 1981 respectively, both having a limited distribution. Industrial Relations and Labour Laws, 6th Edition *Vikas Publishing House* The sixth revised edition of Industrial Relations and Labour Laws captures the significant developments that have taken place in the realm of labour laws and industrial relations in the recent past. The most notable development in the legislative sphere is the amendment in the Industrial Disputes Act, 1947 in 2010. In the judicial sphere, there has been a marked shift in the approach of the Indian judiciary in the area of discipline and disciplinary procedure. Moreover, new norms/principles have been evolved to determine the classification of a person as a workman, provide relief in case of illegal/wrongful termination of service of workmen, determine notice period for strike/lock-out in public utility services and for regularization of services of daily, temporary, casual or contract workers. Extensively revised and updated in line with the changes in the law, this edition also gives a new and more holistic dimension to the subject of labour-management relations. □ Part I provides the contextual and constitutional framework of labour law and an overview of industrial relations. □ Part II deals with the trade union movement, employers' organizations and laws relating to trade unions, collective bargaining, unfair labour practices and victimization. □ Part III deals with regulation of industrial disputes, persuasive, coercive and voluntary processes for settlement of industrial disputes, grievance procedure, government's power of reference, laws relating to instruments of economic coercion, management of discipline, laws relating to change in conditions of service and lay-off, retrenchment, transfer and closure. □ Part IV examines laws relating to standing orders. □ Part V is on workers' participation in management. This edition will serve as a comprehensive textbook for students of LLB, LLM, MBA, MSW, MPA, CS, and masters and diploma programmes in personnel management, industrial relations and labour law. It is indispensable for personnel managers, law officers, lawyers, trade union officials/ members, officials of labour department and members of the labour judiciary. Engineered Nanomaterials for Innovative Therapies and Biomedicine *Springer* Research on biomedical applications of nanomaterials has exhibited the rapidly evolving field of biomedical sciences by showing how effective they are in treatment. These particles hold considerable potential for biomedical applications. Work is ongoing, and the results suggest a possibility for a sustainable future for nanomaterials in both therapeutic and biomedical fields. This book highlights current and emerging applications, taking global research findings into consideration. We believe the focus on the identification and role of nanomaterial applications in therapeutic and biomedical sciences can lead to novel solutions in the fields. The chapters of this book are disseminated in a manner that can be readily adopted as sources for new and further study. The editors integrate advanced texts in their research that help graduate students, researchers and professors. Additionally, we believe that international readers will be able to make use of this book for reference purposes. Who's Who in Science and Engineering 2008-2009 *Marquis Whos Who* Mycoremediation and Environmental Sustainability Volume 1 *Springer* Bioremediation is the use of microorganisms' metabolism to degrade waste contaminants (sewage, domestic, and industrial effluents) into non-toxic or less toxic materials by natural biological processes. Remediation through fungi—or mycoremediation—has multifarious possibilities in applied remediation engineering and the future of environmental sustainability. Fungi have the biochemical and ecological capability to degrade environmental organic chemicals and to decrease the risk associated with metals, semi-metals, noble metals, and radionuclides, either by chemical modification or by manipulating chemical bioavailability. Additionally, the capability of these fungi to form extended mycelia networks, the low specificity of their catabolic enzymes, and their using pollutants as a growth substrate make these fungi well suited for bioremediation processes. Their mycelia exhibit the robustness of adapting to highly limiting environmental conditions often experienced in the presence of persistent pollutants, which makes them more useful compared to other microbes. However, despite dominating the living biomass in soil and being abundant in aquatic ecosystems, fungi have not been exploited for the bioremediation of such environments. This book covers the various types of fungi and associated fungal processes used to clean up waste and wastewaters in contaminated environments and discusses future potential applications. The Delhi & Northern India Directory with Who's who Recent Trends in Fluid Dynamics Research Select Proceedings of RTFDR 2021 *Springer Nature* This book presents select proceedings of Conference on Recent Trends in Fluid Dynamics Research (RTFDR-21). It signifies the current research trends in fluid dynamics and convection heat transfer for both laminar and turbulent flow structures. The topics covered include fluid mechanics and applications, microfluidics and nanofluidics, numerical methods for multiphase flows, cavitation, combustion, fluid-particle interactions in turbulence, biological flows, CFD, experimental fluid mechanics, convection heat transfer, numerical heat transfer, fluid power, experimental heat transfer, heat transfer, non-newtonian rheology, and boundary layer theory. The book also discusses various fundamental and application-based research of fluid dynamics, heat transfer, combustion, etc., by theoretical and experimental approaches. The book will be a valuable reference for beginners, researchers, and professionals interested in fluid dynamics research and allied fields. National Catalogue of University Level Books, 1971 Advanced Ceramic Processing *BoD - Books on Demand* Ceramic oxides typically have a combination of properties that make them attractive for many applications compared with other materials. This book attempts to compile, unify, and present a recent development for the production techniques, such as electrochemical, foaming, and microwave sintering, of rare earth ceramic oxide materials. This book presents leading-edge research in this field from around the world. Although there is no formal partition of the book, the chapters cover several preparation methods for ceramic oxides, especially for coating and electrical applications. In addition, a fabrication foaming technique for porous ceramics with tailored microstructure along with distinctive properties is provided. The information provided in this book is very useful for a board of scientists and engineers from both academia and industry. Annual Number Universities Handbook India Who's who in the Midwest A Biographical Dictionary of Noteworthy Men and Women of the Central and Midwestern States