Engineering Chemistry By P C Jain

Engineering ChemistryMicroorganisms in Environmental ManagementCumulated Index MedicusJain Business Engagement and EthicsElectrical Properties of PolymersOptical and Wireless TechnologiesJain Paintings and Material Culture of Medieval Western IndiaReliability Modelling and Analysis in Discrete TimeNuclear Science AbstractsHandbook of UniversitiesMicrobial DiversityElectrons In Metals And AlloysReligion and Identity in the Indian Ocean WorldCensus of India, 1961: IndiaBibliography of AgricultureSpaces of AnticolonialismFundamentals of ChemistryWorld TradePROGRESS IN DRUG RESEARCH 31Sustainable Economic Development and Environment Dr. Vedavalli Sivaprakasam Tulasi Satyanarayana Shagun C. Jain Donald A. Seanor Manish Tiwari Lipika Maitra Unnikrishnan Nair T. Satyanarayana J. A. Alonso Joshua Esler India. Office of the Registrar Stephen Legg Dr. N. Sridevi K.R. Gupta JUCKER Raj Kumar Sen

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microbes and their biosynthetic capabilities have been invaluable in finding solutions for several intractable problems mankind has encountered in maintaining the quality of the environment they have for example been used to positive effect in human and animal health genetic engineering environmental protection and municipal and industrial waste treatment microorganisms have enabled feasible and cost effective responses which would have been impossible via straightforward chemical or physical engineering methods microbial technologies have of late been applied to a range of environmental problems with considerable success this survey of recent scientific progress in usefully applying microbes to both environmental management and biotechnology is informed by acknowledgement of the polluting effects on the world around us of soil erosion the unwanted migration of sediments chemical fertilizers and pesticides and the improper treatment of human and animal wastes these harmful phenomena have resulted in serious environmental and social problems around the world problems which require us to look for solutions elsewhere than in established physical and chemical technologies often the answer lies in hybrid applications in which microbial methods are combined with physical and chemical ones when we remember that these highly effective microorganisms cultured for a variety of applications are but a tiny fraction of those to be found in the world around us we realize the vastness of the untapped and beneficial potential of microorganisms at present comprehending the diversity of hitherto uncultured microbes involves the application of metagenomics with several novel microbial species having been discovered using culture independent approaches edited by recognized leaders in the

field this penetrating assessment of our progress to date in deploying microorganisms to the advantage of environmental management and biotechnology will be widely welcomed

jain narrative as well as canonical literature indicates that the first tirthankara of jains lord adinath was the founder of work and knowledge based culture in india he taught people how to live as communities and adhere to certain prearranged rules of coexistence and cooperation he prescribed six different skills to be acquired by his subjects for worldly activities like i asi swordsmanship for protection ii masi writing skills iii krishi agriculture iv vidya knowledge v vanijya trade and commerce and vi shilp crafts these skills not only help in creating worldly wealth but also assist individuals and communities to live happily with overall prosperity following the path shown by lord adinath and subsequent tirthankaras the jain society from ancient times has been engaged in business activities with ahimsa non violence as their guiding principle owing to this principle of ahimsa we do find trends of the jain community being engaged in commerce and trade the historical trajectory of mercantile characteristics among the jains continued till date and since india s independence many renowned jains have contributed to the development of india this book documents the conceptual foundation of jain tenets with reference to the western approach toward business ethics it also covers biographies of successful jain entrepreneurs in the past and present apart from the details on the conceptual framework of jain business ethics and jain business engagements through the ages it also contains various essays on jain values and entrepreneurship this book is an academic attempt to examine the jain religion as an eastern case study which will be of interest to readers who are looking for an alternative perspective in light of contemporary worries about global business and economic systems

electrical properties of polymers covers topics on the electrical properties of polymers the book discusses the electrical conduction in polymers the structure and charge generation in low dimensions and the photophysical processes energy transfer and photoconduction in polymers the text also describes the photovoltaic phenomena in organic solids thermally stimulated discharge current analysis of polymers and the polymeric electrets the contact electrification of polymers and its elimination and the dielectric breakdown phenomena in polymers are also considered materials scientists and chemists will find the book invaluable

this book comprises select proceedings of the 4th international conference on optical and wireless technologies owt 2020 the contents of this volume focus on research carried out in the areas of optical communication optoelectronics optics wireless communication wireless networks sensors mobile communications and antenna and wave propagation the volume also explores the combined use of various optical and wireless technologies in next generation applications and their latest developments in applications like photonics high speed communication systems and networks visible light communication nanophotonics wireless and mimo systems this book will serve as a useful reference to scientists academicians engineers and policy makers interested in the field of optical and wireless technologies

through a curated collection of key jain paintings this volume offers a glimpse into the way people lived in western india during the medieval times what they wore how they ornamented themselves what they amused themselves with what furniture they sat on which modes of transport they used it includes jain paintings from various collections in india and abroad to underscore the value of pictorial evidence in piecing together the past the book takes the reader on a breath taking visual journey through the varied costumes exquisite textiles handcrafted ornaments curiously shaped vessels and containers musical instruments arms and armour conveyances and many such articles of everyday use these articles of everyday use are corroborated with the descriptions left by foreign travellers passing through western india at that time it explores contemporary lexicons and vernacular literature from this period for possible names in vogue for the articles of material culture the work is richly illustrated with line drawings by the author to highlight the objects being referred to what comes across

clearly through this book is that art is the mirror of the times and as such paintings reflect the society in which they are created a magnificent read this book will be essential for scholars and researchers of indian painting art history indian art arts and aesthetics jainism visual arts south asian history indian history heritage studies and cultural history it will also be a must have for history and visual arts enthusiasts all over the world

reliability modelling and analysis in discrete time provides an overview of the probabilistic and statistical aspects connected with discrete reliability systems this engaging book discusses their distributional properties and dependence structures before exploring various orderings associated between different reliability structures though clear explanations multiple examples and exhaustive coverage of the basic and advanced topics of research in this area the work gives the reader a thorough understanding of the theory and concepts associated with discrete models and reliability structures a comprehensive bibliography assists readers who are interested in further research and understanding requiring only an introductory understanding of statistics this book offers valuable insight and coverage for students and researchers in probability and statistics electrical engineering and reliability quality engineering the book also includes a comprehensive bibliography to assist readers seeking to delve deeper includes a valuable introduction to reliability theory before covering advanced topics of research and real world applications features an emphasis on the mathematical theory of reliability modeling provides many illustrative examples to foster reader understanding

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

microbial diversity current perspectives and potential applications is woven around the recent global perceptions of microbial diversity diverse perspectives are discussed in the context of ecosystem dynamics taking into consideration environments that are rather unique to microorganisms considerable focus is placed on the role that microorganisms play in sustainable production systems the microbe plant interaction dynamic is highlighted in the discussion of mycorrhizal partners on which depends not only the plant community structure but also abatement of abiotic and biotic stresses another mutualist rhizobia gets its due coverage whereas the plant disease component carries examples from both the perspective of fungal and viral diseases considerable emphasis is placed on a discussion of the environmental issues such as the approaches that will lead to newer bioremediation technologies no discussion of microbial diversity is complete without their implications in animal and human health discussed in this context are l arginases in cancer therapy as well as bioactives from cyanobacteria genomics and pathogenicity of two groups of viruses viz blue tongue and flaviviruses is highlighted whereas keratinophilic fungal forms are discussed in the context of dermatophytic infections this volume also carries a fair number of articles on commercial microbiology

this book is a broad review of the electronic structure of metals and alloys it emphasises the way in which the behavior of electrons in these materials governs the thermodynamic and other properties of these conducting materials the theoretical treatment proceeds from a wave mechanics approach to more sophisticated techniques for the description of the properties of metals and alloys

this is a ground breaking volume on the role of religion as a major force of cohesion across the indian ocean region a diverse range of experts present a case for conceptualizing religion as an enabler of not only shared religious identities throughout the indian ocean world but multiple shared identities mediated through religion particularly as religion intersects with other manifestations of human society in this part of the world this theme is explored through six major religious traditions many of which originated in the indian ocean region and all of which have played major roles throughout its history and to the present day these traditions include judaism christianity islam hinduism jainism and buddhism with this breadth and coverage of these traditions and their role in unifying communities from east africa to western australia including those belonging to nations north of that expanse of ocean this book is a pioneering work on the multi religious identities of the region

spaces of anticolonialism is the first book length account of anticolonialism in delhi as the capital of britain's empire in india it pioneers a spatial governmentality analysis of the networks mobilizations and hidden spaces of anticolonial parrhesia or courageous speech and actions in the two decades before independence in 1947 reading across imperial and nationalist archives newspapers memoirs oral histories and interviews stephen legg exposes subaltern geographies and struggles across both the new and old cities which have traditionally been neglected in favor of the elite spaces of new delhi presenting the dual cities as one interconnected political landscape legg studies indian national congress efforts to mobilize and marshal support between the mass movements of civil disobedience 1930 34 and quit india 1942 43 the book s six chapters compare the two movements in terms of their public spaces of nonviolent anticolonialism their problematization by violence and their legacies this bottom up analysis focused on the streets bazaars neighborhoods homes and undergrounds of the two cities foregrounds the significance of physical and political space it highlights the pioneering role of women in crafting these spaces and it exposes the microtechniques that congress used to encourage gandhi s nonviolence and to tolerate its testing in the face of the rising popularity of the radical left legg s rereading of michel foucault s final lectures on parrhesia produces a bold new approach to questions of postcolonialism resistance and south asian governmentalities this allows anticolonialism to be read not as an outside but as a coherent and bottom up project of self transformation and space making that was elite coordinated but whose sovereignty lay with a disobedient and not always nonviolent public this book provides an innovative and restive historical geography of spaces of anticolonialism in the capital of contemporary india s 1 4 billion people

chemistry is a central science that bridges the physical sciences with the life sciences offering deep insights into the nature composition and transformations of matter the book fundamentals of chemistry represents a collaborative effort by multiple authors to present the essential concepts and principles of chemistry in a structured and accessible manner the multi author approach brings together experts from various branches of chemistry to provide a well rounded treatment of topics ranging from atomic structure and chemical bonding to stoichiometry thermodynamics organic chemistry and biochemistry this diversity enriches the content by combining theoretical foundations with practical applications and laboratory insights our aim is to create a textbook that caters to undergraduate students at the beginning of their chemistry journey equipping them with the knowledge and analytical skills necessary for advanced study and professional practice each chapter is crafted to foster conceptual understanding reinforced by examples illustrations and problem solving techniques that encourage critical thinking and scientific inquiry we extend our gratitude to the academic community for their continuous contributions to the field and to the learners who inspire us to

present chemistry as an intriguing and relevant discipline special thanks to our reviewers and editorial partners for their invaluable input and to our families for their unwavering support during this project this book is a product of shared vision and dedication intended to serve as a trusted resource that fosters curiosity and excellence in the chemical sciences

in recent years phenomenal changes are taking place in the field of world trade more and more countries are opening up their economies trade restrictions are being dismantled or substantially reduced the new gatt accord is an important milestone in the direction of freeing world trade setting up of wto has strength ened the institutional arrangements for freeing the world trade globalisation is taking place on a wide scale developing countries are liberalising import of capit tal and technology terms and conditions for the import of capital and technology are being eased attractive terms are be ing offered to the multinationals to in duce them to set up production units in the importing countries in the monetary field more and more countries are moving in the direction of complete convert ibility of their currencies currencies are being left free to the maximum possible extent to determine their value on the basis of the forces of demand and supply state intervention is resorted to only smoothen the process of change or to coun teract speculative movements of money in order to make a critical analysis of the changes that are taking place in the field of world trade and investment it has been planned to bring out four volumes covering different subjects and including different shades of opinions the present is the first volume of the planned four volumes the contributors of this volume are leading experts in the field of international trade it is hoped that the book would be found useful by students of international trade government executives concerned with the formulation and execution of trade policies business community and the gen eral reader

sustainable economic development and environment india and other low income economies lies is an edited volume of selected research papers mostly presented in the iids 1st calcutta and 2nd perth international conferences on development and future studies the authors include raj kumar sen kartick c roy suhas ch chakrabartty veena devasthali dhirendra nath konar d d guru n manonmoney shri prakash sumitra chowdhury p I sablok k p nath amar s yunnam k nageswara rao alak ghosh s r harrison and p c sharma the present volume while highlighting the major issues in sustaining growth and development in low income economies with special reference to india has focused on different aspects of the environmental problem and its links with the sustainability issue of development in such countries these include not only the question of population growth dwindling forest drought prone village and island economy new areas like general information system and common property rights are also discussed environmental implications of development are also presented in an input output framework and in the context of saarc countries in short the present volume consisting of 14 articles is expected to serve as an important reference book to researchers students and teachers of sustainable economic development and economics of environment and will be of interest to business leaders policy makers and all those interested in these subjects of ever growing importance the international institute for development studies iids is a multi country multi disciplinary research institute with head office in calcutta and external research centres in countries like australia canada finland germany hong kong kenya malaysia malta newzealand norway russia sweden tanzania uk usa etc it is a correspondent institute of the international center for economic growth iceg usa iids is engaged since its inception in 1989 in conducting international antional conferences seminars executing research projects and publication of books and journal it has completed two maj

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