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Energy Efficiency in Household Appliances
Report on Procurement
Design of Advanced Photocatalytic Materials for Energy and Environmental Applications
The Global 2000 Report to the President--entering the Twenty-first Century: The technical report
Part 503 Implementation Guidance
Sapphire
Properties of Polymers
Nuclear Forensic Analysis
Water Resources Management in Romania

The Utilization of Bioremediation to Reduce Soil Contamination: Problems and Solutions
Electric Vehicle Integration into Modern Power Networks

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MARTINEZ SAGE

Heat Capacities and Entropies of Organic Compounds in the Condensed Phase Springer Science & Business Media
The first International Conference on Energy Efficiency in Household Appliances was held in Florence, Italy, in November 1997. This book provides a full account of presentations made, discussions and conclusions reached during the four days of the Conference. It offers a comprehensive picture of the issues at stake, of the results achieved so far through the design and application of standards, the promotion of a better consumer information, the development of energy efficient products and technologies as well as of test methods and other analytical tools. It covers the full range of domestic appliances, with specific sections dealing with White Goods, Air Conditioning, Water Heating, Consumer Electronics and Domestic Lighting. Best practice examples are presented, drawn from a wide range of international experiences. Future perspectives are illustrated, including both technology and policy options and the conditions for their implementation.

Physics and Chemistry of the Solar System CABI

This book discusses water resources management in Romania from a hydrological perspective, presenting the latest research developments and state-of-the-art knowledge that can be applied to efficiently solve a variety of problems in integrated water resources management. It focuses on a wide range of water resources issues - from hydrology and water quantity, quality and supply to flood protection, hydrological hazards and ecosystems, and includes case studies from various watersheds in Romania. As such, the book appeals to researchers, practitioners and graduates as well as to anybody interested in water resources management.

World Intellectual Property Indicators 2020 Springer Science & Business Media

The relatively new technique of solid phase microextraction (SPME) is an important tool to prepare samples both in the lab

and on-site. SPME is a "green" technology because it eliminates organic solvents from analytical laboratory and can be used in environmental, food and fragrance, and forensic and drug analysis. This handbook offers a thorough background of the theory and practical implementation of SPME. SPME protocols are presented outlining each stage of the method and providing useful tips and potential pitfalls. In addition, devices and fiber coatings, automated SPME systems, SPME method development, and In Vivo applications are discussed. This handbook is essential for its discussion of the latest SPME developments as well as its in depth information on the history, theory, and practical application of the method. Practical application of Solid Phase Microextraction methods including detailed steps Provides history of extraction methods to better understand the process Suitable for all levels, from beginning student to experienced practitioner
Odometer Requirements Springer Science & Business Media
This authoritative report analyzes IP activity around the globe. Drawing on 2019 filing, registration and renewals statistics from national and regional IP offices and WIPO, it covers patents, utility models, trademarks, industrial designs, microorganisms, plant variety protection and geographical indications. The report also draws on survey data and industry sources to give a picture of activity in the publishing industry.

Chemistry and Technology of Lubricants Springer Science & Business Media

Physics and Chemistry of the Solar System is a broad survey of the Solar System. The book discusses the general properties and environment of our planetary system, including the astronomical perspective, the general description of the solar system and of the sun and the solar nebula). The text also describes the solar system beyond mars, including the major planets; pluto and the icy satellites of the outer planets; the comets and meteors; and the meteorites and asteroids. The inner solar system, including the airless rocky bodies; mars, venus, and earth; and planets and life about other stars, is also encompassed. Mathematicians, chemists, physicists, geologists, astronomers, meteorologists, and biologists will find the book useful.

Environmental Regulations and Technology Government Printing

Office

Research for the development of more efficient photocatalysts has experienced an almost exponential growth since its popularization in early 1970's. Despite the advantages of the widely used TiO₂, the yield of the conversion of sun power into chemical energy that can be achieved with this material is limited prompting the research and development of a number of structural, morphological and chemical modifications of TiO₂, as well as a number of novel photocatalysts with very different composition. Design of Advanced Photocatalytic Materials for Energy and Environmental Applications provides a systematic account of the current understanding of the relationships between the physicochemical properties of the catalysts and photoactivity. The already long list of photocatalysts phases and their modifications is increasing day by day. By approaching this field from a material sciences angle, an integrated view allows readers to consider the diversity of photocatalysts globally and in connection with other technologies. Design of Advanced Photocatalytic Materials for Energy and Environmental Applications provides a valuable road-map, outlining the common principles lying behind the diversity of materials, but also delimiting the imprecise border between the contrasted results and the most speculative studies. This broad approach makes it ideal for specialist but also for engineers, researchers and students in related fields.

Psychology of Space Exploration: Contemporary Research in Historical Perspective Springer Science & Business Media

A major new independent scientific assessment, carried out by the United Nations Environment Programme (UNEP), shows that pollution from over 50 years of oil operations in the region has penetrated further and deeper than many may have supposed. The assessment has been unprecedented. Over a 14-month period, the UNEP team examined more than 200 locations, surveyed 122 kilometres of pipeline rights of way, reviewed more than 5,000 medical records and engaged over 23,000 people at local community meetings. The environmental restoration of Ogoniland could prove to be the world's most wide-ranging and long term oil clean-up exercise ever undertaken if contaminated

drinking water, land, creeks and important ecosystems such as mangroves are to be brought back to full, productive health. The report key findings are alarming both in terms of human health protection and environmental protection: some areas, which appear unaffected at the surface, are in reality severely contaminated underground; at least 10 Ogoni communities where drinking contaminated water; control and maintenance of oilfield infrastructure in Ogoniland has been and remains inadequate; the impact of oil on mangrove vegetation has been disastrous. The report recommends direct actions in order to address the Niger Delta contamination by oil and warns that the restoration of the area could take up years.

Specific Heats at Low Temperatures Elsevier

This work was begun quite some time ago at the University of Oxford during the tenure of an Overseas Scholarship of the Royal Commission for the Exhibition of 1851 and was completed at Bangalore when the author was being supported by a maintenance allowance from the CSIR Pool for unemployed scientists. It is hoped that significant developments taking place as late as the beginning of 1965 have been incorporated. The initial impetus and inspiration for the work came from Dr. K. Mendelssohn. To him and to Drs. R. W. Hill and N. E. Phillips, who went through the whole of the text, the author is obliged in more ways than one. For permission to use figures and other materials, grateful thanks are tendered to the concerned workers and institutions. The author is not so sanguine as to imagine that all technical and literary flaws have been weeded out. If others come across them, they may be charitably brought to the author's notice as proof that physics has become too vast to be comprehended by a single onlooker. E. S. RAJA GoPAL
Department of Physics Indian Institute of Science Bangalore 12, India November 1965 v Contents Introduction

Economic Evaluation of Bids for Nuclear Power Plants Astm International

By the second half of the twentieth century, a new branch of materials science had come into being — crystalline materials research. Its appearance is linked to the emergence of advanced technologies primarily based on single crystals (bulk crystals and films). At the turn of the last century, the impending onset of the "ceramic era" was forecasted. It was believed that ceramics

would play a role comparable to that of the Stone or Bronze Ages in the history of civilization. Naturally, such an assumption was hypothetical, but it showed that ceramic materials had evoked keen interest among researchers. Although sapphire traditionally has been considered a gem, it has developed into a material typical of the "ceramic era." Widening the field of sapphire application necessitated essential improvement of its homogeneity and working characteristics and extension of the range of sapphire products, especially those with stipulated properties including a preset structural defect distribution. In the early 1980s, successful attainment of crystals with predetermined characteristics was attributed to proper choice of the growth method. At present, in view of the fact that the requirements for crystalline products have become more stringent, such an approach tends to be insufficient. It is clear that one must take into account the physical-chemical processes that take place during the formation of the real crystal structure, i.e., the growth mechanisms and the nature and causes of crystal imperfections.

Thomas Register of American Manufacturers World Bank Publications

Vols. for 1970-71 includes manufacturers catalogs.

Network-Centric Collaboration and Supporting Frameworks Springer Science & Business Media

Summarizes the essential elements of all analytical tests used to characterize petroleum products. The 350 plus entries are alphabetically arranged by chemical and physical properties, such as apparent viscosity, density, metal analysis, sulfur determination, vapor pressure, and water. Each entry covers *Instruments; the Magazine of Measurement and Control* UN Integrating very interesting results from the most important R & D project ever made in Germany, this book offers a basic understanding of tribological systems and the latest developments in reduction of wear and energy consumption by tribological measures. This ready reference and handbook provides an analysis of the most important tribosystems using modern test equipment in laboratories and test fields, the latest results in material selection and wear protection by special coatings and surface engineering, as well as with lubrication and lubricants. This result is a quick introduction for mechanical engineers and laboratory technicians who have to monitor and evaluate lubricants, as well as for plant maintenance personnel,

engineers and chemists in the automotive and transportation industries and in all fields of mechanical manufacturing industries, researchers in the field of mechanical engineering, chemistry and material sciences.

Reforming Infrastructure John Wiley & Sons

Sensor Technologies: Healthcare, Wellness and Environmental Applications explores the key aspects of sensor technologies, covering wired, wireless, and discrete sensors for the specific application domains of healthcare, wellness and environmental sensing. It discusses the social, regulatory, and design considerations specific to these domains. The book provides an application-based approach using real-world examples to illustrate the application of sensor technologies in a practical and experiential manner. The book guides the reader from the formulation of the research question, through the design and validation process, to the deployment and management phase of sensor applications. The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs. "Sensor Technologies: Healthcare, Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare, wellness, and environmental monitoring. From sensor hardware to system applications and case studies, this book gives readers an in-depth understanding of the technologies and how they can be applied. I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications." Dr. Benny Lo Lecturer, The Hamlyn Centre, Imperial College of London "This timely addition to the literature on sensors covers the broad complexity of sensing, sensor types, and the vast range of existing and emerging applications in a very clearly written and accessible manner. It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud-based 'big data' analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present. It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of 'big data' down to the personal level of individual life and health." Dermot Diamond Director, National Centre for Sensor Research, Principal Investigator, CLARITY Centre for Sensor Web Technologies, Dublin City University "Sensor Technologies:

Healthcare, Wellness and Environmental Applications takes the reader on an end-to-end journey of sensor technologies, covering the fundamentals from an engineering perspective, introducing how the data gleaned can be both processed and visualized, in addition to offering exemplar case studies in a number of application domains. It is a must-read for those studying any undergraduate course that involves sensor technologies. It also provides a thorough foundation for those involved in the research and development of applied sensor systems. I highly recommend it to any engineer who wishes to broaden their knowledge in this area!" Chris Nugent Professor of Biomedical Engineering, University of Ulster

Environmental Assessment of Ogoniland CRC Press
Electricity, natural gas, telecommunications, railways, and water supply, are often vertically and horizontally integrated state monopolies. This results in weak services, especially in developing and transition economies, and for poor people. Common problems include low productivity, high costs, bad quality, insufficient revenue, and investment shortfalls. Many countries over the past two decades have restructured, privatized and regulated their infrastructure. This report identifies the challenges involved in this massive policy redirection. It also assesses the outcomes of these changes, as well as their distributional consequences for poor households and other disadvantaged groups. It recommends directions for future reforms and research to improve infrastructure performance, identifying pricing policies that strike a balance between economic efficiency and social equity, suggesting rules governing access to bottleneck infrastructure facilities, and proposing ways to increase poor people's access to these crucial services.

Leadership Laboratory Department of State
Coastal deltas represent one of the most diverse biophysical regions in the tropical developing world. These regions are also home to large human populations and are significant areas of agricultural production and industrialization. Tropical deltas currently face a number of environmental pressures stemming from their intensive use and rapid development, and new threats are emerging as a result of global climate change and expected sea-level rise. Focusing on the developing countries of Asia, Africa and South America, chapters explore the impact of development strategies and existing land and water management practices on

delta environments. New management techniques are also explored, which address conflicts between rice-based agriculture, aquaculture, fisheries, and the emerging threat of climate change. Illustrating the current key management challenges involved in protecting tropical deltaic systems in the face of environmental change, this book will be an essential reference for students, researchers and policy makers in agriculture, environmental science and aquaculture.

Handbook of Solid Phase Microextraction Elsevier
Over the past decade, four major developments in global economic integration have shaped trade policy and the economic performance of countries within the Middle East and North Africa region: the emergence of global supply chains, the growth of trade in services, the rise of China and India as major international trading powers, and regional integration. These developments, along with the labor and natural resource endowments of particular countries (some are resource-poor but labor-abundant, some resource-rich and labor-abundant, and some resource-rich and labor-importing), have influenced export diversification outcomes across the region. Yet these countries may not be taking full advantage of all of the opportunities the four new trends offer to them. 'Trade Competitiveness of the Middle East and North Africa: Policies for Export Diversification' examines the region's trade policy agendas and their results by focusing on the countries' response to these four key developments in international trade. As the region recovers from the global financial and economic crises, the book identifies reforms that could allow countries to further strengthen global production networks, benefit more from trade in services, better compete in external markets to face the rise of China and India, and reach the full potential of regional integration. If thoroughly implemented, especially by oil exporters, all of these reforms could help boost growth and job creation in the region.

Biophysics of the Failing Heart Springer Nature
Now in its second edition, *Nuclear Forensic Analysis* provides a multidisciplinary reference for forensic scientists, analytical and nuclear chemists, and nuclear physicists in one convenient source. The authors focus particularly on the chemical, physical, and nuclear aspects associated with the production or interrogation of a radioactive sample.

Trade Competitiveness of the Middle East and North Africa

Academic Press

The use of lubricants began in ancient times and has developed into a major international business through the need to lubricate machines of increasing complexity. The impetus for lubricant development has arisen from need, so lubricating practice has preceded an understanding of the scientific principles. This is not surprising as the scientific basis of the technology is, by nature, highly complex and interdisciplinary. However, we believe that the understanding of lubricant phenomena will continue to be developed at a molecular level to meet future challenges. These challenges will include the control of emissions from internal combustion engines, the reduction of friction and wear in and continuing improvements to lubricant performance and machinery, life-time. More recently, there has been an increased understanding of the chemical aspects of lubrication, which has complemented the knowledge and understanding gained through studies dealing with physics and engineering. This book aims to bring together this chemical information and present it in a practical way. It is written by chemists who are authorities in the various specialisations within the lubricating industry, and is intended to be of interest to chemists who may already be working in the lubricating industry or in academia, and who are seeking a chemist's view of lubrication. It will also be of benefit to engineers and technologists familiar with the industry who require a more fundamental understanding of lubricants.

Climate Action Report WIPO

Through essays on topics including survival in extreme environments and the multicultural dimensions of exploration, readers will gain an understanding of the psychological challenges that have faced the space program since its earliest days. An engaging read for those interested in space, history, and psychology alike, this is a highly relevant read as we stand poised on the edge of a new era of spaceflight. Each essay also explicitly addresses the history of the psychology of space exploration.

Sensor Technologies American Institute of Physics
Properties of Polymers: Their Correlation with Chemical Structure; Their Numerical Estimation and Prediction from Additive Group Contributions summarizes the latest developments regarding polymers, their properties in relation to chemical structure, and methods for estimating and predicting numerical properties from chemical structure. In particular, it examines polymer electrical

properties, magnetic properties, and mechanical properties, as well as their crystallization and environmental behavior and failure. The rheological properties of polymer melts and polymer solutions are also considered. Organized into seven parts encompassing 27 chapters, this book begins with an overview of polymer science and engineering, including the typology of polymers and their properties. It then turns to a discussion of thermophysical properties, from transition temperatures to

volumetric and calorimetric properties, along with the cohesive aspects and conformation statistics. It also introduces the reader to the behavior of polymers in electromagnetic and mechanical fields of force. The book covers the quantities that influence the transport of heat, momentum, and matter, particularly heat conductivity, viscosity, and diffusivity; properties that control the chemical stability and breakdown of polymers; and polymer

properties as an integral concept, with emphasis on processing and product properties. Readers will find tables that give valuable (numerical) data on polymers and include a survey of the group contributions (increments) of almost every additive function considered. This book is a valuable resource for anyone working on practical problems in the field of polymers, including organic chemists, chemical engineers, polymer processors, polymer technologists, and both graduate and PhD students.

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