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Developments in Rubber Technology—4

Springer Science & Business Media This volume, the fourth in a series which began in 1979, covers a greater variety of subjects than any previous single volume. The basis of selection has been topical interest; hence the tailor-making of polymers to develop specific properties, methods of improving com pound processability and the use of rubbers in the oil industry are featured alongside a discussion of safety aspects. We have again sought the cooperation of the foremost authorities on the chosen subjects and have been delighted at the response which has yielded a list of authors of international repute. A. w. K. S. L. CONTENTS Preface v List of Contributors ix 1. Recent Developments in Synthetic Rubbers by Anionic Polymerization 1 I. G. HARGIS, R. A. LIVIGNI and S. L. AGGARWAL 2. Advances in Nitrile Rubber (NBR) 57 P. W. MILNER 3. Epoxidized Natural Rubber. 87 C. S. L. BAKER and I. R. GELLING 4. Process Aids and Plasticizers . 119 B. G. CROWTHER 5. A Review of Elastomers Used for Oilfield Sealing Environments . 159 W. N. K. REVOLTA and G. C. SWEET 6. Using Modern Mill Room Equipment . 193 H. ELLWOOD 7. Quality Requirements and Rubber Mixing . 221 P. S. JOHNSON 8. Health and Safety . . 253 B. G. WILLOUGHBY Index . 307 vii LIST OF CONTRIBUTORS s. L. AGGARWAL Gen Corp , Research Division, 2990 Gilchrist Road, Akron, Ohio 44305, USA C. S. L. BAKER Malaysian Rubber Producers' Research Association,

Tun Abdul Razak Laboratory, Brickendonbury, Hertford SG13 8NL, UK B. G.

Handbook Of Green Materials: Processing Technologies, Properties And Applications (In 4 Volumes)

World Scientific Green materials and green nanotechnology have gained widespread interest over the last 15 years; first in academia, then in related industries in the last few years.The Handbook of Green Materials serves as reference literature for undergraduates and graduates studying materials science and engineering, composite materials, chemical engineering, bioengineering and materials physics; and for researchers, professional engineers and consultants from polymer or forest industries who encounter biobased nanomaterials, bionanocomposites, self- and direct-assembled nanostructures and green composite materials in their lines of work.This four-volume set contains material ranging from basic, background information on the fields discussed, to reports on the latest research and industrial activities, and finally the works by contributing authors who are prominent experts of the subjects they address in this set.The four volumes comprise of:The first volume explains the structure of cellulose; different sources of raw material; the isolation/separation processes of nanomaterials from different material sources; and properties and characteristics of cellulose nanofibers and nanocrystals (starch nanomaterials). Information on the different characterization methods and the most important properties of biobased nanomaterials are also covered. The industrial point of view regarding both the processability and access of these nanomaterials, as well as large scale manufacturing and their industrial application is discussed — particularly in relation to the case of the paper industry.The second volume expounds on different bionanocomposites based on cellulose nanofibers or nanocrystals and their preparation/manufacturing processes. It also provides information on different characterization methods and the most important properties of bionanocomposites, as well as techniques of modeling the mechanical properties of nanocomposites. This volume presents the industrial point of view regarding large scale manufacturing and their applications from the perspective of their medical uses in printed electronics and in adhesives.The third volume deals with the ability of bionanomaterials to self-assemble in either liquids or forming organized solid materials. The chemistry of cellulose nanomaterials and chemical modifications as well as different assembling techniques and used characterization methods, and the most important properties which can be achieved by self-assembly, are described. The chapters, for example, discuss subjects such as ultra-light biobased aerogels based on cellulose and chitin, thin films suitable as barrier layers, self-sensing nanomaterials, and membranes for water purification.The fourth volume reviews green composite materials — including green raw materials — such as biobased carbon fibers, regenerated cellulose fibers and thermoplastic and thermoset polymers (e.g. PLA, bio-based polyolefines, polysaccharide polymers, natural rubber, bio-based

polyurethane, lignin polymer, and furfurylalchohol). The most important composite processing technologies are described, including: prepregs of green composites, compounding, liquid composite molding, foaming, and compression molding. Industrial applications, especially for green transportation and the electronics industry, are also described.This four-volume set is a must-have for anyone keen to acquire knowledge on novel bionanomaterials — including structure-property correlations, isolation and purification processes of nanofibers and nanocrystals, their important characteristics, processing technologies, industrial up-scaling and suitable industry applications. The handbook is a useful reference not only for teaching activities but also for researchers who are working in this field.

Ullmann's Polymers and Plastics, 4 Volume Set

Products and Processes

John Wiley & Sons Your personal Ullmann's: Chemical and physical characteristics, production processes and production figures, main applications, toxicology and safety information are all to be found here in one single resource - bringing the vast knowledge of the Ullmann's Encyclopedia to the desks of industrial chemists and chemical engineers. The ULLMANN'S perspective on polymers and plastics brings reliable information on more than 1500 compounds and products straight to your desktop Carefully selected "best of" compilation of 61 topical articles from the Encyclopedia of Industrial Chemistry on economically important polymers provide a wealth of chemical, physical and economic data on more than 1000 different polymers and hundreds of modifications Contains a wealth of information on the production and use of all industrially relevant polymers and plastics, including organic and inorganic polymers, fibers, foams and resins Extensively updated: more than 30% of the content has been added or updated since the launch of the 7th edition of the Ullmann's encyclopedia in 2011 and is now available in print for the first time 4 Volumes

Science and Technology of Rubber

Elsevier The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing. Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition

was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling. · Explores new applications of rubber within the tire industry, from new filler materials to "green tires (a tire that has yet to undergo curing and vulcanization). · 30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment. · A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.

Reactive and Functional Polymers Volume One

Biopolymers, Polyesters, Polyurethanes, Resins and Silicones

Springer Nature Reactive and functional polymers are manufactured with the aim of improving the performance of unmodified polymers or providing functionality for different applications. These polymers are created mainly through chemical reactions, but there are other important modifications that can be carried out by physical alterations in order to obtain reactive and functional polymers. This volume presents a comprehensive analysis of these reactive and functional polymers. Reactive and Functional Polymers Volume One provides the principles and foundations for the design, development, manufacture and processing of reactive and functional polymers based primarily on biopolymers, polyesters and polyurenthanes. The text provides an in-depth review of updated sources on reactive resins and silicones. In this book, world-renowned researchers have participated, including Dr. Runcang Sun (Associate editor for the journal 'Carbohydrate Polymers'). With its comprehensive scope and up-to-date coverage of issues and trends in Reactive and Functional Polymers, this is an outstanding book for students, professors, researchers and industrialists working in the field of polymers and plastic materials.

RF and Microwave Microelectronics Packaging

Springer Science & Business Media RF and Microwave Microelectronics Packaging presents the latest developments in packaging for high-frequency electronics. It will appeal to practicing engineers in the electronic packaging and high-frequency electronics fields and to academic researchers interested in understanding leading issues in the commercial sector. It covers the latest developments in thermal management, electrical/RF/thermal-mechanical designs and simulations, packaging and processing methods as well as other RF/MW packaging-related fields.

Asphalt Paving Technology 2013

Volume 82, Journal of the Association of Asphalt Paving Technologists

DEStech Publications, Inc New developments in mixing, testing, modeling Research findings on sustainable asphalt technology Bitumen use and specifications in Europe Fully-searchable text on accompanying CD-ROM Asphalt Paving Technology 2013, a series volume, contains 26 original research papers devoted to the formulation, chemistry, mixing, modeling, testing and optimization of asphalt—with applications to highway and infrastructure engineering. Written by leading civil and structural engineers from universities and government agencies around the world, the book offers information for designing and producing higher-quality asphalt. Selected keywords: photocatalytic asphalt; fatigue loading; skid-resistance; low-temperature cracking software; long-term aging; fracture properties; moisture damage; RAP; rejuvenators; binders; flexible pavement; healing. The CD-ROM displays figures and illustrations in articles in full color along with a title screen and main menu screen. Each user can link to all papers from the Table of Contents and Author Index and also link to papers and front matter by using the global bookmarks which allow navigation of the entire CD-ROM from every article. Search features on the CD-ROM can be by full text including all key words, article title, author name, and session title. The CD-ROM has Autorun feature for Windows 2000 with Service Pack 4 or higher products along with the program for Adobe Acrobat Reader with Search 11.0. One year of technical support is included with your purchase of this product.

Natural Rubber Materials

Volume 1: Blends and IPNs

Royal Society of Chemistry The combination of its unique morphology, physical properties, cost effectiveness and environmental friendliness make natural rubber an appealing constituent for many materials and applications. Natural Rubber Materials covers the synthesis, characterization and applications of natural rubber based blends, interpenetrating polymer networks, composites and nanocomposites. With contributions from established international experts in the field, volume 1 covers different types of natural rubber-based blends and IPNs, whilst volume 2 focuses on natural rubber-based composites and nanocomposites. This is the first book to consolidate the current state of the art information on natural rubber based materials providing a "one stop" reference resource for professionals, researchers, industrial practitioners, graduate students, and senior undergraduates in the fields of polymer science and engineering, materials science, surface science, bioengineering and chemical engineering.

Natural Rubber Science and Technology

Oxford University Press, USA A summary of the current position in the study of rubber, its fundamental properties and the uses to which it is put, from everyday to extraordinary applications, with pointers to the future.

Technological Innovation for Life Improvement

11th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial

Systems, DoCEIS 2020, Costa de Caparica, Portugal, July 1–3, 2020, Proceedings

Springer Nature This book constitutes the refereed proceedings of the 11th IFIP WG 5.5/SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2020, held in Costa de Caparica, Portugal, in July 2020. The 20 full papers and 24 short papers presented were carefully reviewed and selected from 91 submissions. The papers present selected results produced in engineering doctoral programs and focus on technological innovation for industry and service systems. Research results and ongoing work are presented, illustrated and discussed in the following areas: collaborative networks; decisions systems; analysis and synthesis algorithms; communication systems; optimization systems; digital twins and smart manufacturing; power systems; energy control; power transportation; biomedical analysis and diagnosis; and instrumentation in health.

Biomass Volume Estimation and Valorization for Energy

BoD – Books on Demand This book is the outcome of contributions by many experts in the field from different disciplines, various backgrounds, and diverse expertise. This book provides information on biomass volume calculation methods and biomass valorization for energy production. The chapters presented in this book include original research and review articles. I hope the research presented in this book will help to advance the use of biomass for bioenergy production and valorization. The key features of the book are: Providing information on biomass volume estimation using direct, nondestructive and remote sensing methods Biomass valorization for energy using thermochemical (gasification and pyrolysis) and biochemical (fermentation) conversion processes.

Technological Advancement in Mechanical and Automotive Engineering

Proceeding of International Conference in Mechanical Engineering Research 2021

Springer Nature This book Technological Advancement in Mechanical & Automotive Engineering gathers selected papers submitted to the 6th International Conference on Mechanical Engineering Research in fields related to automotive engineering, thermal and fluid engineering, and energy. This proceeding consists of papers in aforementioned related fields presented by researchers and scientists from universities, research institutes and industry showcasing their latest findings and discussions with an emphasis on innovations and developments in embracing the new norm resulting from the COVID pandemic.

Evaluation of Waste Tire Devulcanization Technologies

Shreir's Corrosion

Elsevier This four-volume reference work builds upon the success of past editions of Elsevier’s Corrosion title (by Shreir, Jarman, and Burstein), covering the range of innovations and applications that have emerged in the years since its publication. Developed in partnership with experts from the Corrosion and Protection Centre at the University of Manchester, Shreir’s Corrosion meets the research and productivity needs of engineers, consultants, and researchers alike. Incorporates coverage of all aspects of the corrosion phenomenon, from the science behind corrosion of metallic and non-metallic materials in liquids and gases to the management of corrosion in specific industries and applications Features cutting-edge topics such as medical applications, metal matrix composites, and corrosion modeling Covers the benefits and limitations of techniques from scanning probes to electrochemical noise and impedance spectroscopy

Recent Advances in Adhesion Science and Technology in

Honor of Dr. Kash Mittal

CRC Press The surface of an object is the first thing we see or touch. Nearly every article or object we encounter at home, in industry, land transportation, aerospace, or the medical field in some way uses an adhesive, a sealant, or a decorative coating. Adhesion science provides the technology and the know-how behind these applications. Recent Advances in Adhesion Science and Technology in Honor of Dr. Kash Mittal is dedicated to Dr. Mittal's outstanding contributions to the global adhesion community and his achievements in disseminating the science of adhesion. This Festschrift volume contains selected papers from the Special Symposium on Recent Advances in Adhesion Science and Technology held in honor of Dr. Mittal to commemorate the publication of his 100th edited book. Written by world-renowned researchers, the papers have been updated for inclusion in this volume. They offer insight into recent developments and the significant ramifications to adhesion science and adhesive technology. Nineteen articles are divided into five sections: Interfaces, Wettability, and Adhesion; Surface Modification of Polymers; Adhesion Aspects of Bio-Based Materials and Bioadhesion; Adhesives and Their Testing; and Nanomaterials and Nanocomposites. Reflecting the multidisciplinary nature of adhesion science, the topics covered include metal–polymer interfaces and ways to improve adhesion, lateral force at liquid–solid interface, particle adhesion in pharmaceutical sciences, wood joints formed without use of adhesives, reinforced polymer composites using different fillers, "green" composites, medium density fiber board surfaces for powder coating, adhesion aspects in dentistry, E. coli interactions in porous media, analysis of adhesive behavior in bonded assemblies, soy proteins as wood adhesives, carbon nanotube-based interphase sensors, and reaction of multiwalled carbon nanotubes with gaseous atoms.

Asphalt Paving Technology 2015

DEStech Publications, Inc Recent research on asphalt binder aging and rejuvenatorsKey data on asphalt performance and formulationsUpdates on tests and specificationsFully-searchable text on CD-ROM (included) This series volume comprises research papers and technical reports developed within the U.S.-based Association of Asphalt Paving Technologists. The book is divided into sessions focused on technology, specifications, cold recycling of RAP, and rejuvenators, with special emphasis on aging and on how rejuvenators are modeled, formulated and used to improve asphalt binders and prevent cracking. The CD-ROM displays figures and illustrations in articles in full color along with a title screen and main menu screen. Each user can link to all papers from the Table of Contents and Author Index and also link to papers and front matter by using the global bookmarks which allow navigation of the entire CD-ROM from every article. Search features on the CD-ROM can be by full text including all key words, article title, author name, and

session title. The CD-ROM has Autorun feature for Windows 2000 with Service Pack 4 or higher products along with the program for Adobe Acrobat Reader with Search 11.0. One year of technical support is included with your purchase of this product.

Encyclopedia of Chemical Processing and Design

Volume 56 - Supercritical Fluid Technology: Theory and Application to Technology Forecasting

CRC Press Supercritical Fluid Technology: Theory and Application to Technology Forecasting

Metal, Ceramic and Polymeric Composites for Various Uses

BoD – Books on Demand Composite materials, often shortened to composites, are engineered or naturally occurring materials made from two or more constituent materials with significantly different physical or chemical properties which remain separate and distinct at the macroscopic or microscopic scale within the finished structure. The aim of this book is to provide comprehensive reference and text on composite materials and structures. This book will cover aspects of design, production, manufacturing, exploitation and maintenance of composite materials. The scope of the book covers scientific, technological and practical concepts concerning research, development and realization of composites.

Scientific and Technical Aerospace Reports

Selected Proceedings of the Eighth International Conference on Waste Management and Technology

Trans Tech Publications Ltd Volume is indexed by Thomson Reuters CPCI-S (WoS). With the development of industry and the improvement of living standards, the amount of solid waste is increasing rapidly. New research and industries solutions in the field of waste management and recycling become increasingly important. The volume highlights the academic and policy trends on waste management and collects the latest research trends and innovative ideas in the solid waste field. The peer reviewed papers are grouped as follows: Chapter 1. Circular Economy and Urban Mining; Chapter 2. Industrial Waste; Chapter 3. Electrical and Electronic Waste; Chapter 4. Biomass Energy; Chapter 5. Hazardous Waste: Chapter 6. Sewage Sludge; Chapter 7. Contaminated Sites and Soil Remediation; Chapter 8. Other.

Handbook of Bioplastics and Biocomposites Engineering Applications

John Wiley & Sons "The Handbook of Bioplastics & Biocomposites Engineering Applications brings together scientists, from academia and industries, to report on current research and applications, in the bioplastics and biocomposites arena, that integrates pure and applied sciences such as chemistry, engineering and materials science. The Handbook focuses on five main categories of applications: Packaging, Civil Engineering, Biomedical, Automotive, General Engineering"--

Technology Entrepreneurship : A Treatise on Entrepreneurs and Entrepreneurship for and in

Technology Ventures. Vol 1 und Vol 2.

KIT Scientific Publishing

Information and Communication Technology for Intelligent Systems

Proceedings of ICTIS 2018, Volume 1

Springer The book gathers papers addressing state-of-the-art research in all areas of Information and Communication Technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems, which was held on April 6–7, 2018, in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analytics and algorithms, making it a valuable resource for researchers' future studies.

Advances in Bioengineering

BoD – Books on Demand The technological approach and the high level of innovation make bioengineering extremely dynamic and this forces researchers to continuous updating. It involves the publication of the results of the latest scientific research. This book covers a wide range of aspects and issues related to advances in bioengineering research with a particular focus on innovative technologies and applications. The book consists of 13 scientific contributions divided in four sections: Materials Science; Biosensors. Electronics and Telemetry; Light Therapy; Computing and Analysis Techniques.

Oilseeds

BoD – Books on Demand As the cultivation of brassica crops continues to contribute to western diets, new approaches to maximizing yields are welcome. This book presents chapters on various aspects of this issue, with a particular focus on canola crops and the oil produced from them. Those chapters address the relevance of transgenic and molecular breeding techniques to develop cold tolerance in Brassica napus L. crops grown over the winter in North America, the effects of seed-placed ammonium sulphate and monoammonium phosphate on the germination and growth of brassicae oilseed crops and the cultivation of high-erucic Brassicaceae in a Mediterranean environment. Other chapters cover oil presses, sesame seeds and oilseed pests, as well as the nitrogen efficiency of oilseed rape.

Mobile Computing: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global "This multiple-volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers"--Provided by publisher.

Solid Waste Engineering and Management

Volume 3

Springer Nature This book is the third volume in a three-volume set on Solid Waste Engineering and Management. It focuses on tourism industry waste, rubber tire recycling, electrical and electronic wastes, health-care waste, landfill leachate, bioreactor landfill, energy recovery, innovative composting, biodrying, and health and safety considerations pertaining to solid waste management.. The

volumes comprehensively discuss various contemporary issues associated with solid waste pollution management, impacts on theenvironmental and vulnerable human populations, and solutions to these problems.

Advanced Testing and Characterization of Bituminous Materials, Two Volume Set

CRC Press Bituminous materials are used to build durable roads that sustain diverse environmental conditions. However, due to their complexity and a global shortage of these materials, their design and technical development present several challenges. Advanced Testing and Characterisation of Bituminous Materials focuses on fundamental and performance testing

Chains of Opportunity

The University of Akron and the Emergence of the Polymer Age, 1909-2007

The University of Akron Press While ""plastics"" was a one-word joke in the 1967 movie The Graduate, plastics and other polymers have never been a laughing matter at the University of Akron, with its world-renowned College of Polymer Science and Polymer Engineering. Chains of Opportunity: The University of Akron and the Emergence of the Polymer Age, 1909-2007 tells the story of the university's rise to prominence in the field, beginning with the world's first academic course in rubber chemistry almost a century ago. Chains of Opportunity explores the university's pioneering contributions to rubber chemistry, polymer science, and polymer engineering. It traces the school's interaction with Akron rubber giants such as Goodyear and Firestone, recounts its administration of the federal government's synthetic rubber program during World War II, and describes its role in the development and professionalization of the academic discipline in polymers. The University of Akron has been an essential force in establishing the polymer age that has become a pervasive part of our material lives, in everything from toys to biotechnology.

Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses

Proceedings of the 14th CIRP Conference on Life Cycle Engineering, Waseda University, Tokyo, Japan, June 11th-13th, 2007

Springer Science & Business Media Life cycle engineering explores technologies for shifting industry from mass production and consumption paradigms to closed-loop manufacturing paradigms, in which required functions are provided with the minimum amount of production. This subject is discussed from various aspects: life cycle design, design for environment, reduce-reuse-recycle, life cycle assessment, and sustainable business models. This book collects papers from the 14th International CIRP Life Cycle Engineering Conference, the longest-running annual meeting in the field.

Minerals Yearbook Metals and Minerals 2010 Volume I

Government Printing Office

Redefining Diversity and Dynamics of Natural Resources Management in Asia, Volume 4

The Reciprocal Relationship between Governance of Natural Resources and Socio-Ecological Systems Dynamics in West Sumatra Indonesia

Elsevier Redefining Diversity and Dynamics of Natural Resources Management in Southeast Asia, Volumes 1-4 brings together scientific research and policy issues across various topographical area in Asia to provide a comprehensive overview of the issues facing the region. The Reciprocal Relationship between Governance of Natural Resources and Socio-Ecological Systems Dynamics in West Sumatra Indonesia, Volume 4, covers a diverse range of issues related to natural resources and its management in West Sumatra Indonesia. The chapters cover issues with livelihood dependence, rights and access to natural resources, natural resources management practices, socio-ecological systems, and governance. Shared experiences and lessons learned from the case studies examined serve as a basis for policy makers and environmental practitioners to recognize the potential of West Sumatra's natural resources for ecological, social and economic development, food security, poverty alleviation, and natural resource sustainability. Features contributions from mostly local authors Explores an area experiencing considerable environmental challenges, including impacts on biodiversity and local economies Includes chapters on forests and illegal logging, land resources, water resources, protected lands, and biodiversity Examines case studies as a basis for policy makers and environmental practitioners to recognize the potential of West Sumatra's natural resources for ecological, social and economic development, food security, poverty alleviation, and natural resource sustainability

Technology Entrepreneurship : A Treatise on Entrepreneurs and Entrepreneurship for and in

Technology Ventures. Vol 2.

KIT Scientific Publishing

Rubber Technology

Springer Science & Business Media About ten years after the publication of the Second Edition (1973), it became apparent that it was time for an up-date of this book. This was especially true in this case, since the subject matter has traditionally dealt mainly with the structure, properties, and technology of the various elastomers used in industry, and these are bound to undergo significant changes over the period of a decade. In revising the contents of this volume, it was thought best to keep the orig inal format. Hence the first five chapters discuss the same general subject matter as before. The chapters dealing with natural rubber and the synthetic elastomers are up-dated, and an entirely new chapter has been added on the thermoplastic elastomers, which have, of course, grown tremendously in importance. Another innovation is the addition of a new chapter, "Miscellaneous Elastomers," to take care of "old" elastomers, e.g., polysulfides, which have decreased some what in importance, as well as to introduce some of the newly-developed syn thetic rubbers which have not yet reached high production levels. The editor wishes to express his sincere appreciation to all the contributors, without whose close cooperation this task would have been impossible. He would especially like to acknowledge the invaluable assistance of Dr. Howard Stephens in the planning of this book, and for his suggestion of suitable authors.

Effective Standardization Management in Corporate Settings

IGI Global The use of standards to optimize the interoperability of systems has become commonplace in the business world. Though once believed to limit innovation, it has been shown that standardization promotes organizational growth. Through defining norms for given technologies, managers open themselves to new opportunities and developments. Effective Standardization Management in Corporate Settings is a pivotal reference source that assesses the link between standards and efficiency in the business world. This innovative publication addresses the economic importance, global impacts, effective tools, and strategies employable across all levels of an organization. Ideal for managers, business owners, business students, and IT professionals, this progressive book highlights the

best practices and procedures to bring standardization to the forefront of the contemporary business model.

Handbook of Alternative Fuel Technologies

CRC Press In addition to enabling a clean and energy efficient future, alternative fuel sources are fast becoming a necessity for meeting today's growing demands for low-cost and convenient energy. The Handbook of Alternative Fuel Technologies offers a thorough guide to the science and available technologies for developing alternatives to petroleum fuel sour

Integrated Computer Technologies in Mechanical Engineering -- 2021

Synergetic Engineering

Springer Nature The International Scientific and Technical Conference "Integrated Computer Technologies in Mechanical Engineering : Synergetic Engineering" (ICTM) was established by National Aerospace University Kharkiv Aviation Institute. The Conference ICTM2021 was held in Kharkiv, Ukraine, during October 2829, 2021. During this conference, technical exchanges between the research community were carried out in the forms of keynote speeches, panel discussions, as well as special session. In addition, participants were treated to a series of receptions, which forge collaborations among fellow researchers. ICTM2021 received 203 papers submissions from different countries. Target Groups ICTM was formed to bring together outstanding researchers and practitioners in the field of information technology in the design and manufacture of engines; creation of rocket space systems, aerospace engineering from all over the world to share their experience and expertise.

Rubberchem 2006

iSmithers Rapra Publishing

Climate Change, Torn between Myth and Fact

Cambridge Scholars Publishing This book is both a plea and an invitation to consider climate change from a multi-faceted perspective, taking into account (geo)physical, social, cultural, psychological, religious, mythological, economic, and judicial viewpoints, among others. As such, it will serve as a useful and necessary guide towards a better understanding of our own mental structures and systems of preferences, ideologies, or beliefs.

Non-exhaust Particulate Emissions from Road Transport An Ignored Environmental Policy Challenge

An Ignored Environmental Policy Challenge

OECD Publishing Non-exhaust emissions of particulate matter constitute a little-known but rising share of emissions from road traffic and have significant negative impacts on public health. This report synthesizes the current state of knowledge about the nature, causes, and consequences of non-exhaust particulate emissions. It also projects how particulate matter emissions from non-exhaust sources may evolve in future years and reflects on policy instrument mixes that can address this largely ignored environmental issue.