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New Scientist - 2002

Journal of Rheology - 2002

Ceramics Science and Technology, Volume 4 - Ralf Riedel 2013-08-05
Although ceramics have been known to mankind literally for millennia, research has never ceased. Apart from the classic uses as a bulk material in pottery, construction, and decoration, the latter half of the twentieth century saw an explosive growth of application fields, such as electrical and thermal insulators, wear-resistant bearings, surface coatings, lightweight armour, and aerospace materials. In addition to plain, hard solids, modern ceramics come in many new guises such as fabrics, ultrathin films, microstructures and hybrid composites. Built on the solid foundations laid down by the 20-volume series Materials Science and Technology, Ceramics Science and Technology picks out this exciting material class and illuminates it from all sides. Materials scientists, engineers, chemists, biochemists, physicists and medical researchers alike will fi nd this work a treasure trove for a wide range of ceramics knowledge from theory and fundamentals to practical approaches and problem solutions.

Gasification - Christopher Higman 2003-10-21
This book provides an excellent overview of current technologies for the gasification of coal, oil, gas, biomass and waste feedstocks. Starting from the basic theory, it reviews the potential feedstocks and their suitability for different types of gasification process. Commercial and near-commercial processes are described individually and various features discussed in detail. There is a comprehensive review of contaminants in synthesis gas as well as of gas treating processes. One chapter is devoted to discussions of various chemical, fuel and power applications for gasification. Economic, environmental and safety issues of gasification are also covered. Both authors have been involved with gasification for over 30 years, gaining in the process a fund of practical insight and experience, which is evident throughout the book. * Addresses practical issues such as selection of the best equipment. * Ideal reference for anyone involved in operating or designing a gasification plant. * Written in an easy-to-understand format with worked examples and a

comprehensive glossary and bibliography.

Green Chemistry and Sustainability in Pulp and Paper Industry - Pratima Bajpai 2015-06-23

This book features in-depth and thorough coverage of Minimum Impact Mill Technologies which can meet the environmental challenges of the pulp and paper industry and also discusses Mills and Fiberlines that encompass “State-of-the-Art” technology and management practices. The minimum impact mill does not mean "zero effluent", nor is it exclusive to one bleaching concept. It is a much bigger concept which means that significant progress must be made in the following areas: Water Management, Internal Chemical Management, Energy Management, Control and Discharge of Non-Process Elements and Removal of Hazardous Pollutants. At the moment, there is no bleached kraft pulp mill operating with zero effluent. With the rise in environmental awareness due to the lobbying by environmental organizations and with increased government regulation there is now a trend towards sustainability in the pulp and paper industry. Sustainable pulp and paper manufacturing requires a holistic view of the manufacturing process. During the last decade, there have been revolutionary technical developments in pulping, bleaching and chemical recovery technology. These developments have made it possible to further reduce loads in effluents and airborne emissions. Thus, there has been a strong progress towards minimum impact mills in the pulp and paper industry. The minimum-impact mill is a holistic manufacturing concept that encompasses environmental management systems, compliance with environmental laws and regulations and manufacturing technologies.

Competition Science Vision - 2003-01

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Competition Science Vision - 2002-07

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Canadian Journal of Chemistry - 2005

Associations Canada - 2002

Introduction to Green Chemistry, Second Edition - Albert Matlack 2010-04-05

In the nearly 10 years since the publication of the bestselling first edition of Introduction to Green Chemistry, interest in green chemistry and clean processes has grown so much that topics, such as fluorous biphasic catalysis, metal organic frameworks, and process intensification, barely mentioned in the first edition, have become major areas of research. In addition, government funding has ramped up the development of fuel cells and biofuels. It reflects the evolving focus from pollution remediation to pollution prevention. Copiously illustrated with over 800 figures, this second edition provides an update from the frontiers of the field. New and expanded research topics: Metal-organic frameworks Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro- and mesoporous solids Organocatalysis Process

intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale Updated and expanded current events topics: Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics, including catalysis, benign solvents, and alternative feedstocks. It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment. This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society.

Tappi Journal - 2004

4,4'-diamino-2,2'- Stilbenedisulfonic Acid Chemistry from China, Germany, and Indi -

Competition Science Vision - 2002-09

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Soybean and Nutrition - Hany El-Shemy 2011-09-12

Worldwide, soybean seed proteins represent a major source of amino acids for human and animal nutrition. Soybean seeds are an important and economical source of protein in the diet of many developed and developing countries. Soy is a complete protein and soy-foods are rich in vitamins and minerals. Soybean protein provides all the essential amino acids in the amounts needed for human health. Recent research suggests that soy may also lower risk of prostate, colon and breast cancers as well as osteoporosis and other bone health problems and alleviate hot flashes associated with menopause. This volume is expected to be useful for student, researchers and public who are interested in soybean.

EU Regulation of Chemicals - D. J. Knight 2006

Handbook for cleaning/decontamination of surfaces - Ingegard Johansson 2007-06-20

The focus of Handbook for Cleaning/Decontamination of Surfaces lies on cleaning and decontamination of surfaces and solid matter, hard as well as soft. Bringing together in a 2-volume reference source: - current knowledge of the physico-chemical fundamentals underlying the cleaning process; - the different needs for cleaning and how these needs are met by various types of cleaning processes and cleaning agents, including novel approaches; - how to test that cleaning has taken place and to what extent; - the effects of cleaning on the environment; - future trends in cleaning and decontamination, for example the idea of changing surfaces, to hinder the absorbance of dirt and thus make cleaning easier. A brief introduction is given to the legal demands concerning the environment and a historical background, in terms of development of detergents, from soaps to the modern sophisticated formulations. Bactericides, their use and the environmental demands on them are covered. Thorough discussions of mechanisms for cleaning are given in several chapters, both general basic concepts and special cases like particle cleaning and cleaning using microemulsion concepts. * General understanding of how cleaning works, function of ingredients and formulations * Overview of environmental issues and demands from the society in the area * Gives basic formulas for cleaning preparations in most areas

Ceramics in America - 2004

Current Law Index - 2002

Chemistry and Industry - 2002

The Geometry and Petrogenesis of Dolomite Hydrocarbon Reservoirs - Colin J. R. Braithwaite 2004
The wide distribution of dolomite rocks in North American, Middle- and Far-Eastern hydrocarbon reservoirs is reason enough for their intensive study. In this volume dolomite enthusiasts review progress and define the current boundaries of dolomite research, related particularly to the importance of these rocks as reservoirs.
Journal of the Indian Chemical Society - Indian Chemical Society 2004

Make the Grade in AS and A2 Chemistry - George Facer 2003
Make the Grade offers comprehensive exam support for AS and A2 Chemistry. Part of the Nelson Advanced Science series it provides activities and questions for use throughout the course, with exam questions, including synoptic questions, to help students fully prepare for examinations.
Indian Journal of Chemistry - 2003

Journal of Pulp and Paper Science - 2002

Applied Physics - 2003

Politics and Policies for Water Resources Management in India - M. Dinesh Kumar 2020-06-29
This comprehensive volume explores the interface between politics and policy making in the water management sector of India. The authors discuss the nature of the political discourse on water management in India, and what characterizes this discourse. They also explore how this discourse has influenced the process of framing water related policies in India, particularly through the 'academics-bureaucrat-politician' nexus and the growing influence of the civil society groups on policy makers, which are the defining feature of this process, and which have produced certain policy outcomes that are not supported by sufficient scientific evidence. The book reveals that the social and management sciences, despite being increasingly relevant in contemporary water management, are unable to impress upon traditional, engineer-dominated water administration to seek solutions to complex water problems owing to a lack of interdisciplinary perspective in their research. The authors also examine the current deadlock in undertaking sectoral reforms due to existing water policies not being honoured. This collection includes several research studies which suggest legal, institutional policy alternatives for addressing the problems in areas such as irrigation, rural and urban water supply, flood control and adaptation to climate variability and change. It was originally published as a special issue of the International Journal of Water Resources Development.
New Publications of the U.S. Geological Survey - 2002

Environmental Health Perspectives - 1993

AIAA Journal - American Institute of Aeronautics and Astronautics 2007

Research Paper NE - 1987

Modeling Streamflow and Water Temperature in the North Santiam and Santiam Rivers, Oregon, 2001-02 - Annett Brigitte Sullivan 2004

Reservoir Formation Damage - Faruk Civan 2011-08-30
Reservoir Formation Damage, Second edition is a comprehensive treatise of the theory and modeling of common formation damage problems and is an important guide for research and development, laboratory testing for diagnosis and effective treatment, and tailor-fit- design of optimal strategies for mitigation of reservoir formation damage. The new edition includes field case histories and simulated scenarios demonstrating the consequences of formation damage in petroleum reservoirs Faruk Civan,

Ph.D., is an Alumni Chair Professor in the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma in Norman. Dr. Civan has received numerous honors and awards, including five distinguished lectureship awards and the 2003 SPE Distinguished Achievement Award for Petroleum Engineering Faculty. Petroleum engineers and managers get critical material on evaluation, prevention, and remediation of formation damage which can save or cost millions in profits from a mechanistic point of view State-of-the-Art knowledge and valuable insights into the nature of processes and operational practices causing formation damage Provides new strategies designed to minimize the impact of and avoid formation damage in petroleum reservoirs with the newest drilling, monitoring, and detection techniques

Paper Technology - 2002

Index Medicus - 2003

Rubber Compounding - Brendan Rodgers 2004-07-23

Highlighting more than a decade of research, this one-of-a-kind reference reviews the production, processing, and characteristics of a wide range of materials utilized in the modern tire and rubber industry. Rubber Compounding investigates the chemistry and modification of raw materials, elastomers, and material compounds for optimal formulation an

Natural Fibers, Biopolymers, and Biocomposites - Amar K. Mohanty 2005-04-08

Natural/Biofiber composites are emerging as a viable alternative to glass fiber composites, particularly in automotive, packaging, building, and consumer product industries, and becoming one of the fastest growing additives for thermoplastics. Natural Fibers, Biopolymers, and Biocomposites provides a clear understanding of the present state

New Publications of the Geological Survey - Geological Survey (U.S.) 2003

Bibliographic Guide to Education 2003 - GK Hall 2004-09

The "Bibliographic Guide to Education" lists recent publications cataloged during the past year by Teachers College, Columbia University, supplemented by publications in the field of education cataloged by The Research Libraries of The New York Public Library, selected on the basis of subject headings. Non-book materials, including theses, are included in this "Guide," with the exception of serials. All aspects and levels of education are represented in this "Guide," including such areas as: American elementary and secondary education, higher and adult education, early childhood education, history and philosophy of education, applied pedagogy, international and comparative education, educational administration, education of the culturally disadvantaged and physically handicapped, nursing education and education of minorities and women. Also well covered are the administrative reports of departments of education for various countries and for U.S. states and large cities. The Teachers College collection covers over 200 distinct educational systems. Works in all languages are included. The" Bibliographic Guide to Education" serves in part as an annual supplement to the "Dictionary Catalog of the Teachers College Library, Columbia University" (G.K. Hall & Co., 1970) and Supplements ("First Supplement," 1971; "Second Supplement," 1973; "Third Supplement," 1977).

Nanostructure Control of Materials - R H J Hannink 2006-02-28

Nanotechnology is an area of science and technology where dimensions and tolerances in the range of 0.1nm to 100nm play a critical role. Nanotechnology has opened up new worlds of opportunity. It encompasses precision engineering as well as electronics, electromechanical systems and mainstream biomedical applications in areas as diverse as gene therapy, drug delivery, and novel drug discovery techniques. Nanostructured materials present exciting opportunities for manipulating structure and properties on the nanometer scale. The ability to engineer novel structures at the molecular level has led to unprecedented opportunities for materials design. Valuable for materials scientists, mechanical and electronic engineers, and medical researchers, this book provides detailed insights into the synthesis and

the structure and property relationships of nanostructured materials.

New publications of the U.S. Geological Survey - Geological Survey (U.S.) 2002