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**Pulp & Paper** - 1988

Biermann's Handbook of Pulp and Paper

- Pratima Bajpai 2018-05-17

Biermann's Handbook of Pulp and Paper: Paper and Board Making. Third Edition provides a thorough introduction to paper and board making, providing paper technologists recent information. The book emphasizes principles and concepts behind papermaking, detailing both the physical and chemical processes. It has been updated, revised and extended. Several new chapters have been added. Papermaking chemistry has found an adequate scope covering this important area by basics and practical application. Scientific and technical advances in refining, including the latest developments have been presented. The process of stock preparation describes the unit processes. An exhaustive overview of Chemical additives in Pulp and Paper Industry is included. Paper and pulp processing and additive chemicals are an integral part of the total papermaking process from pulp slurry, through sheet formation, to effluent disposal. Water circuits with loop designs and circuit closure are presented. The chapter on paper and board manufacture covers the different sections in the paper machine and also fabrics, rolls and roll covers, and describes the different types of machines producing the various paper and board grades. Coating is dealt with in a separate chapter covering color formulation and preparation and also coating application. Paper finishing gives an insight into what happens at roll slitting and handling. The chapter on environmental impact includes waste water treatment and handling, air emissions, utilization and solid residue generation and mitigation. The major paper and board grades and their properties, are described. Biotechnological methods for paper processing are also presented. This handbook is essential reading for Applied Chemists, Foresters, Chemical Engineers, Wood Scientists, and Pulp and Paper technologists/Engineers, and anyone else interested or involved in the pulp and paper industry. Provides comprehensive coverage on all aspects of papermaking Covers the latest science and technology in papermaking Includes traditional and biotechnological methods, a unique feature of this book Presents the environmental impact of papermaking industries Sets itself apart as a valuable reference that every pulp and papermaker/engineer/chemist will find extremely useful.

**Encyclopedia of Forest Sciences** - Julian Evans 2004-04-02

A combination of broad disciplinary coverage and scientific excellence, the Encyclopedia of Forest Sciences will be an indispensable addition to the library of anyone interested in forests, forestry and forest sciences. Packed with valuable insights from experts all over the world, this remarkable set not only summarizes recent advances in forest science techniques, but also thoroughly covers the basic information vital to comprehensive understanding of the important elements of forestry. The Encyclopedia of Forest Sciences also covers relevant biology and ecology, different types of systems. Recent developments on recycling and sustainability are also highlighted.
Production of Biofuels and Chemicals with Pyrolysis-Zhen Fang

2020-10-27 This book presents a collection of studies on state-of-art techniques for converting biomass to chemical products by means of pyrolysis, which are widely applicable to the valorization of biomass. In addition to discussing the fundamentals and mechanisms for producing bio- oils, chemicals, gases and biochar using pyrolysis, it outlines key reaction parameters and reactor configurations for various types of biomass. Written by leading experts and providing a broad range of perspectives on cutting-edge applications, the book is a comprehensive reference guide for academic researchers and industrial engineers in the fields of natural renewable materials, bioenergy of lignocellulosic, biofuels, and environmental engineering, and a valuable resource for university students in the fields of chemical engineering, material science and environmental engineering.

Pulp & Paper International- 1985

Pulp and Paper Industry-Pratima Bajpai 2016-01-22 Pulp and Paper Industry: Energy Conservation presents a number of energy-efficient technologies and practices that are cost-effective and available for implementation today. Emerging energy-efficient technologies and future prospects in this field are also dealt with. Qualitative and quantitative results/data on energy savings for various steps of pulp and paper making process are presented. There is no specific book on this topic. This will be a comprehensive reference in the field. Thorough and in-depth coverage of energy-efficient technologies and practices in paper and pulp industry. Presents cost-effective and available for implementation today technologies. Discusses Biotechnological processes, especially enzymatic processes in the pulp and paper industry to reduce the energy consumption and improve the product quality. Presents qualitative and quantitative results/data on energy savings for various steps of pulp and paper making process

Computational and Experimental Simulations in Engineering-Hiroshi Okada 2019-11-16 This book gathers the latest advances, innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational & Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of applied sciences and engineering: theoretical, analytical, computational, and experimental studies and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences. As such, the book discusses highly diverse topics, including composites; bioengineering & biomechanics; geotechnical engineering; offshore & arctic engineering; multi-scale & multi-physics fluid engineering; structural integrity & longevity; materials design & simulation; and computer modeling methods in engineering. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Handbook of Frozen Food Processing and Packaging-Da-Wen Sun

2005-11-14 Frozen foods make up one of the biggest sectors in the food industry. Their popularity with consumers is due primarily to the variety they offer and their ability to retain a high standard of quality. Thorough and authoritative, the Handbook of Frozen Food Processing and Packaging offers and their ability to retain a high standard of quality. Thorough and authoritative, the Handbook of Frozen Food Processing and Packaging offers a comprehensive look at American industries, Encyclopedia of American Industries chronicles the history, development and status of approximately 1,000 industries in the United States. Distinguishing itself from other business reference titles, Encyclopedia of American Industries is unique in its exhaustive coverage of American industry and in its special attention to industrial history. Also, separating the Encyclopedia from competing sources is its consistent and easy-to-use encyclopedic format. The two-volume collection of articles are written with the accuracy and depth necessary for the professional, but at a level understandable to the novice and will be useful to a wide audience, including business-people, students, teachers, librarians, job seekers and investors. Essays, ranging in length from 500 to 5,000 words, provide a straight-forward examination of each industry. Here’s a sample of some of the industry areas covered in EAI -- Manufacturing -- Transportation -- Entertainment -- Wholesale and retail trade -- Agriculture -- Construction -- Communications -- Finance -- And many others Individual entries typically contain: -- Size and impact of industry -- Industry organization and workings -- Historical development -- Current status of the industry -- Leading companies within the industry -- Size and nature of the workforce -- International outlook -- Technological and legal developments -- Bibliography In addition to including charts and graphs, which supplement the text with specific industryinformation, the Encyclopedia also includes two indexes. The industry index provides users with a comprehensive roster of industries and services and the SIC classifications under which they are categorized. And, to help users quickly and easily pinpoint key information, the general index provides citations to companies, associations, key government agencies and legislative acts (e.g. the North American Free Trade Agreement) that are discussed within the essays.

Aqueous Pretreatment of Plant Biomass for Biological and Chemical Conversion to Fuels and Chemicals-Charles E. Wyman 2013-03-27 Plant biomass is attracting increasing attention as a sustainable resource for large-scale production of renewable fuels and chemicals. However, in order to successfully compete with petroleum, it is vital that biomass conversion processes are designed to minimize costs and maximize yields. Advances in pretreatment technology are critical in order to develop high-yielding, cost-competitive routes to renewable fuels and chemicals. Aqueous Pretreatment of Plant Biomass for Biological and Chemical Conversion to Fuels and Chemicals comprehensively covers the current state of the art in aqueous pretreatment technologies for cellulosic biomass, highlighting the fundamental science and biochemistry of each method, key attributes and limitations, and opportunities for future advances. Topics covered include: • The importance of biomass conversion to fuels • The role of pretreatment in biological and chemical conversion of biomass • Compositions and structures of biomass after pretreatment • Key reactions during pretreatment • Evaluations of the effects of pretreatment on the structure of plant biomass • Fundamentals of biomass pretreatment at low, neutral and high pH • Ionic liquid and organosolv pretreatments to fractionate biomass • Comparative data for application of leading pretreatments and effect of enzyme formulations • Physical and chemical features of pretreated biomass • Economics of pretreatment for biological processing • Methods of analysis and enzymatic conversion of biomass streams • Experimental pretreatment systems from multwellplates to pilot plant operations This comprehensive reference book provides an authoritative resource of information on the pretreatment of cellulosic biomass to those experienced in the field to access the most current information on the topic. It will also be invaluable to those entering the growing field of biomass conversion.

Encyclopedia of Global Industries-Diane M. Sawinski 1996 This one-stop directory will quickly bring you and your patrons up to speed on 115 vital international industries through debriefed, custom-written articles. Encyclopedia of Global Industries covers industries that play a key role in the global trade and interdependence such as automotive, apparel petroleum and commercial fishing and provides information that is difficult to locate -- all in one source. This title’s extensive coverage and useful blend of industry overview and outlook make it unique among reference sources that concentrate on international industries. Encyclopedia of Global Industries fills the information gap that lacks comprehensive, current industry overviews and international statistics which form primary sources. With this innovative reference you can address your patrons’ specific international industry research needs: -- Students compiling information on issues surrounding various industries for reports or papers -- Business professionals seeking international trade data -- Job seekers gathering industry statistics to prepare for interviews -- Attorneys collecting information for litigation --Accounting consultants needing a fast, up-to-date overview of an industry -- Investors or commodity brokers researching the soundness of an industry -- Journalists looking for information for articles -- As well as many others Arranged alphabetically by industry, each competition
entry covers a broad spectrum of topics about the industry: -- Size and economic/social impact of the industry -- How it is organized and how it functions -- History and development -- Major countries and companies involved in the industry, including rankings and market shares -- Current economic outlook with projections -- Size and nature of the work force -- Research and technology within the industry -- A bibliography of sources for more information -- Other features include statistics, graphs, tables and charts, as well as market share and trend data. To help users find the information they need, several methods of accessing are available. Two table of contents arrange information: the first, alphabetically by broad industry categories with the industry titles below; the second lists all industry titles alphabetically. Four major indexes include: the general index, containing alphabetical references to all companies, associations, publications, and other key terms in the text, the geographic index, separated by industry within each country; the Harmonized System code index, which links the HS codes to corresponding SIC codes; and the industry index, organized by SIC code. Hot industries covered include -- Biotechnology -- Information retrieval services -- Computer and data processing industries -- Financial services and trading -- Instruments and related products -- Metal products and industries -- Printing and publishing -- Public services and utilities -- Retail and rental outlets

**Pulp and Paper Manufacture: Coating, converting, and specialty processes**-Michael J. Kocurek 1990

**Fundamentals and Recent Advances in Nanocomposites Based on Polymers and Nanocellulose**-Md Rezaur Rahman 2021-10-05

**Environmental Factors of Recycled Paper Manufacturing**-CallRecovery, Inc 1994

**Magill's Survey of Science**-Frank Northen Magill 1993

**Biochar: Fundamentals and Applications in Environmental Science and Remediation Technologies**, Volume Six provides readers with the fundamentals of scientific and technological aspects of biochar application in stormwater treatment, its use in contaminant removal, groundwater gas mitigation, as landfill cover material, and new environmental and agronomic applications. Chapters in this new release cover Biochar application for soil remediation in a redox-sensitive environment, Remediation of heavy metal contaminated soil: Role of biochar, Role of biochar as a cover material in Landfill waste disposal system- Perspective from Unsaturated soil mechanics, Biochar in soil re-engineering, Green remediation of contaminated agricultural land using biochar, and more. Additional chapters cover the impact of biochars on redox processes in soils, Biochar for manipulation of manure properties, A relationship paradigm between biochar amendments and green house gas emissions, Biochar amalgamation with clay: Enhanced performance for environmental remediation, Functionalization of biochar using microbial consortia, and the Potential role of biochar to mitigate the negative impacts of climate change on water quality. Provides up to-date information on the use of biochar for contaminant remediation, as landfill cover material, and as a tool for energy transition Includes the aspect of biochar's use in mitigating impacts of climate change and how manure properties can be altered through biochar addition Covers the role of microbial consortia on biochar functionalization

**Pulp & Paper ... North American Fact Book**-1998


**How Products are Made**-Neil Schlager 1994 Provides information on a variety of products, discussing background, history, raw materials, design, and the manufacturing process

**How Products are Made**-1994

**How Products are Made**-1994

**How Products are Made**-1994
Materials Forum- 1998

Unbleached Kraft Markets- Will Mies 1985

The World Book Encyclopedia- World Book, Inc 1996-12 An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

The World Book Encyclopedia- 2000 An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.

Subject Catalog- Library of Congress 1982

Uncoated Groundwood Papers- David R. Allan 1984