

Environmentally Friendly Production of Pulp and Paper

Pratima Bajpai

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Environmentally Friendly Production Of Pulp And Paper



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Environmentally Friendly Production of Pulp and Paper Pratima Bajpai, 2011-03-21 Implementing Cleaner Production in the pulp and paper industry The large and still growing pulp and paper industry is a capital and resource intensive industry that contributes to many environmental problems including global warming human toxicity ecotoxicity photochemical oxidation acidification nitrification and solid wastes This important reference for professionals in the pulp and paper industry details how to improve manufacturing processes that not only cut down on the emission of pollutants but also increase productivity and decrease costs Environmentally Friendly Production of Pulp and Paper guides professionals in the pulp and paper industry to implement the internationally recognized process of Cleaner Production CP It provides updated information on CP measures in Raw material storage and preparation Pulping processes Kraft Sulphite and Mechanical Bleaching recovery and papermaking Emission treatment and recycled fiber processing In addition the book includes a discussion on recent cleaner technologies and their implementation status and benefits in the pulp and paper industry Covering every aspect of pulping and papermaking essential to the subject of reducing pollution this is a must have for paper and bioprocess engineers environmental engineers and corporations in the forest products industry Environmentally Friendly Production of Pulp and Paper Pratima Bajpai, 2010-10-19 Implementing Cleaner Production in the pulp and paper industry The large and still growing pulp and paper industry is a capital and resource intensive industry that contributes to many environmental problems including global warming human toxicity ecotoxicity photochemical oxidation acidification nitrification and solid wastes This important reference for professionals in the pulp and paper industry details how to improve manufacturing processes that not only cut down on the emission of pollutants but also increase productivity and decrease costs Environmentally Friendly Production of Pulp and Paper guides professionals in the pulp and paper industry to implement the internationally recognized process of Cleaner Production CP It provides updated information on CP measures in Raw material storage and preparation Pulping processes Kraft Sulphite and Mechanical Bleaching recovery and papermaking Emission treatment and recycled fiber processing In addition the book includes a discussion on recent cleaner technologies and their implementation status and benefits in the pulp and paper industry Covering every aspect of pulping and papermaking essential to the subject of reducing pollution this is a must have for paper and bioprocess engineers environmental engineers and corporations in the forest products industry Environmentally Friendly Technologies for the Pulp and Paper Industry Raymond A. Young, Masood Akhtar, 1997-11-19 Solving the pulp and paper industries environmental problems is essential to maintaining the forest industry and accommodating the changing economic needs of forest communities This book explores the construction of new mills operating on new technology that does not produce pollutants which are vital to the pulp and paper industry Cram101 Textbook Outlines to Accompany: Environmentally Friendly Production of Pulp and Paper by Pratima Bajpai Cram101 (Firm), Pratima Bajpai, 2012 **Green Pulp and Paper Industry**

Amit Kumar,Puneet Pathak,Dharm Dutt,2021-07-19 This book provides recent developments and future perspectives of pulp and paper processing based on biotechnology to replace conventional environmental unfriendly chemical processes The use of microorganism and microbial enzymes in various processes such as bleaching deinking refining dissolving pulp debarking pitch removal slime control wastewater treatment and waste material valorisation are discussed **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 *Environmentally Benign Pulping* Pratima Bajpai,2023-02-05 This book provides the most up to date and comprehensive information on the state of the art techniques and aspects involved in environment friendly pulping technologies Traditional chemical and semi chemical pulping processes are not environmentally friendly Therefore it has become important to look for alternative approaches to mitigate wastewater emissions in the paper industry by making more stringent regulations to improve environmental conservation In response to this problem new raw materials need to be explored to replace traditional choices and also new pulping processes need to be developed based on less polluting more easily recovered reagents This book presents new and emerging deep eutectic solvents for lignocellulosic biomass pretreatment and discusses the effects of deep eutectic solvents on biomass pretreatment and the production of value added products It also introduces biotechnological methods of pulping Biotechnological processes help to make manufacturing processes cleaner and more efficient by reducing toxic chemical pollution and greenhouse gas emissions Given its scope this book is of interest to applied chemists foresters chemical engineers wood scientists along with engineers and researchers involved in the pulp and paper industry as a valuable reference *Biermann's Handbook of Pulp and Paper* Pratima Bajpai,2018-05-17 Biermann s Handbook of Pulp and Paper Raw Material and Pulp Making Third Edition is a

comprehensive reference for industry and academia covering the entire gamut of pulping technology This book provides a thorough introduction to the entire technology of pulp manufacture features chapters covering all aspects of pulping from wood handling at the mill site through pulping and bleaching and pulp drying It also includes a discussion on bleaching chemicals recovery of pulping spent liquors and regeneration of chemicals used and the manufacture of side products The secondary fiber recovery and utilization and current advances like organosolv pulping and attempts to close the cycle in bleaching plants are also included Hundreds of illustrations charts and tables help the reader grasp the concepts being presented This book will provide professionals in the field with the most up to date and comprehensive information on the state of the art techniques and aspects involved in pulp making It has been updated revised and extended Alongside the traditional aspects of pulping and papermaking processes this book also focuses on biotechnological methods which is the distinguishing feature of this book It includes wood based products and chemicals production of dissolving pulp hexenuronic acid removal alternative chemical recovery processes forest products biorefinery The most significant changes in the areas of raw material preparation and handling pulping and recycled fiber have been included A total of 11 new chapters have been added This handbook is essential reading for all chemists and engineers in the paper and pulp industry Provides comprehensive coverage on all aspects of pulp making Covers the latest science and technology in pulp making Includes traditional and biotechnological methods a unique feature of this book Presents the environmental impact of pulp and papermaking industries Sets itself apart as a valuable reference that every pulp and papermaker engineer chemist will find extremely useful

Chemistry of Renewables Arno Behr, Thomas Seidensticker, 2020-10-29 This textbook introduces the industrial production and processing of natural resources It is divided into six major topics fats and oils carbohydrates lignin terpenoids other natural products biorefinery which are divided into a total of 20 chapters Each chapter is self contained and therefore a compact learning unit which can be worked on by students in self study or presented by lecturers Clear illustrations flow diagrams apparatus drawings and photos facilitate the understanding of the subject matter All chapters end with a succinct summary the Take Home Messages Each chapter is supplemented by ten short test questions which can be solved quickly after working through the chapter the answers are at the end of the book All chapters contain bibliographical references that focus on essential textbooks and reference works As a prior knowledge only basic knowledge of chemistry is required

Food Packaging Gordon L. Robertson, 2016-04-19 This book presents an integrated approach to understanding the principles underlying food packaging and their applications This edition includes new and expanded coverage of biobased packaging and bionanocomposites nanotechnology applications including nanoclays metallization and atomic layer deposition shelf life design analysis and estimation safety and legislative aspects of packaging including public interest in food contact materials such as BPA and phthalates life cycle assessment and sustainability A new chapter addresses food packaging closures and sealing systems including closures for plastic and composite containers and peelable seals

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

Bioremediation of Industrial Waste for Environmental Safety Gaurav Saxena, Ram Naresh Bharagava, 2019-06-29 Achieving environmental sustainability with rapid industrialization is a major challenge of current scenario worldwide As globally evident industries are the key economic drivers but are also the major polluters as untreated partially treated effluents discharged from the industries is usually thrown into the aquatic resources and also dumped unattended Industrial effluents are considered as the major sources of environmental pollution as these contains highly toxic and hazardous pollutants which reaches far off areas due to the medium of dispersion and thus create ecological nuisance and health hazards in living beings Hence there is an urgent to find ecofriendly solution to deal with industrial waste and develop sustainable methods for treating detoxifying wastewater before its release into the environment Being a low cost and eco friendly clean technology bioremediation can be a sustainable alternative to conventional remediation technologies for treatment and management of industrial wastes to protect public health and environment Therefore this book Volume I covers the bioremediation of different industrial wastes viz tannery wastewater pulp and paper mill wastewater distillery wastewater acid mine tailing wastes and many more which are lacking in a comprehensive manner in previous literature at one place A separate chapter dedicated to major industries and type of waste produced by them is also included This book will appeal to students researchers scientists industry persons and professionals in field of microbiology biotechnology environmental sciences eco toxicology environmental remediation and waste management and other relevant areas who aspire to work on the biodegradation and bioremediation of industrial wastes for environmental safety

International Business Alan M. Rugman, 2002 This comprehensive four volume set includes all major contributions to the field of international business It also includes key writings in the areas of international political economy and on regional and national issues

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Specific Accompanys 9780470528105 Circular Economy and Sustainable Development Alexandros I. Stefanakis, Ioannis E. Nikolaou, 2024-10-22 This book will highlight the role of CE in the sustainability field as it is expressed in the various fields and disciplines and its contribution to building a sustainable society by providing a better understanding of the relevant social and cultural structures and the need for cross disciplinary knowledge and diverse skills Such an integrated approach which combines the concept of sustainability in the engineering field to create a CE has not yet been presented in detail in the published literature and there are only scattered studies covering only small parts of this holistic approach Hence this book will represent a single reference that will provide summarized information and state of the art knowledge on this topic of the future The book will include chapters showcasing investigating the relation between circular economy principles and their realization in different engineering fields This includes theoretical justification research studies and full scale case studies The approach focuses on two distinct levels macro and micro on both production and consumption sides

Corporate Environmental Responsibility Neil Gunningham, 2017-03-02 Traditionally industry has been accused of sacrificing sustainable development in the pursuit of short term profit Yet today under the banner of Corporate Environmental Responsibility CER a growing number of business organizations are claiming to be part of the solution rather than part of the problem So what is this emerging phenomenon of CER and what does it aspire to achieve How pervasive is it and what are its implications for both business and the environment This collection of essential articles and papers maps the development of the CER concept traces the principal debates concerning its contribution to environmental protection assesses the evidence as to what extent corporations are seeking to do well be doing good and explains why some companies have gone down this path when others similarly situated have been unwilling to do so In essence it asks what has CER accomplished what can it accomplish and what is beyond its reach OECD Environmental Outlook OECD, 2001-04-05 The OECD Environmental Outlook provides economy based projections of environmental pressures and changes in the state of the environment to 2020 *Development of Circular Economy in China* Jianguo Qi, Jingxing Zhao, Wenjun Li, Xushu Peng, Bin Wu, Hong Wang, 2016-10-12 This book presents a detailed background to the circular economy in China explores government measures to promote it in China s market economy and introduces the supporting laws and policies The book goes on to describe from a technology perspective successful circular economy practices in sectors such as agriculture iron and steel cement coal fired power chemistry paper manufacturing and city mineral This book sheds some light on what China has done and achieved to change the mode of economic development in order to minimize its negative impacts on resources and the environment Readers will learn from and be inspired by China s circular economy practices Industrializing countries can also draw on China s experiences to solve their own problems enabling them to make their economic development resource saving and more environmentally friendly If this is achieved this book can be considered a modest contribution to the sustainability of human society **Energy Tax Incentives Driving the Green Job Economy** United States. Congress.

House. Committee on Ways and Means,2011

Green Automation Francisco José Gomes da Silva,2024-06-21

Environmental issues are a growing concern for our society and should deserve increased attention given the extremely negative climate changes which have been taking place Emissions of greenhouse gases excessive dependence on fossil fuels growing consumption of power energy and exacerbated consumption of materials are some of the problems that need to be addressed urgently Some of these problems can be overcome through ingenious solutions based on automation This book aims to make a contribution precisely in this sense criticizing the current state of society in general and providing some solutions that can be used as a basis for the development of more environmentally friendly systems

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Table of Contents Environmentally Friendly Production Of Pulp And Paper

1. Understanding the eBook Environmentally Friendly Production Of Pulp And Paper
 - The Rise of Digital Reading Environmentally Friendly Production Of Pulp And Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Environmentally Friendly Production Of Pulp And Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Environmentally Friendly Production Of Pulp And Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Environmentally Friendly Production Of Pulp And Paper
 - Personalized Recommendations
 - Environmentally Friendly Production Of Pulp And Paper User Reviews and Ratings
 - Environmentally Friendly Production Of Pulp And Paper and Bestseller Lists
5. Accessing Environmentally Friendly Production Of Pulp And Paper Free and Paid eBooks
 - Environmentally Friendly Production Of Pulp And Paper Public Domain eBooks
 - Environmentally Friendly Production Of Pulp And Paper eBook Subscription Services
 - Environmentally Friendly Production Of Pulp And Paper Budget-Friendly Options

6. Navigating Environmentally Friendly Production Of Pulp And Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Environmentally Friendly Production Of Pulp And Paper Compatibility with Devices
 - Environmentally Friendly Production Of Pulp And Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Environmentally Friendly Production Of Pulp And Paper
 - Highlighting and Note-Taking Environmentally Friendly Production Of Pulp And Paper
 - Interactive Elements Environmentally Friendly Production Of Pulp And Paper
8. Staying Engaged with Environmentally Friendly Production Of Pulp And Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Environmentally Friendly Production Of Pulp And Paper
9. Balancing eBooks and Physical Books Environmentally Friendly Production Of Pulp And Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Environmentally Friendly Production Of Pulp And Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Environmentally Friendly Production Of Pulp And Paper
 - Setting Reading Goals Environmentally Friendly Production Of Pulp And Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Environmentally Friendly Production Of Pulp And Paper
 - Fact-Checking eBook Content of Environmentally Friendly Production Of Pulp And Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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