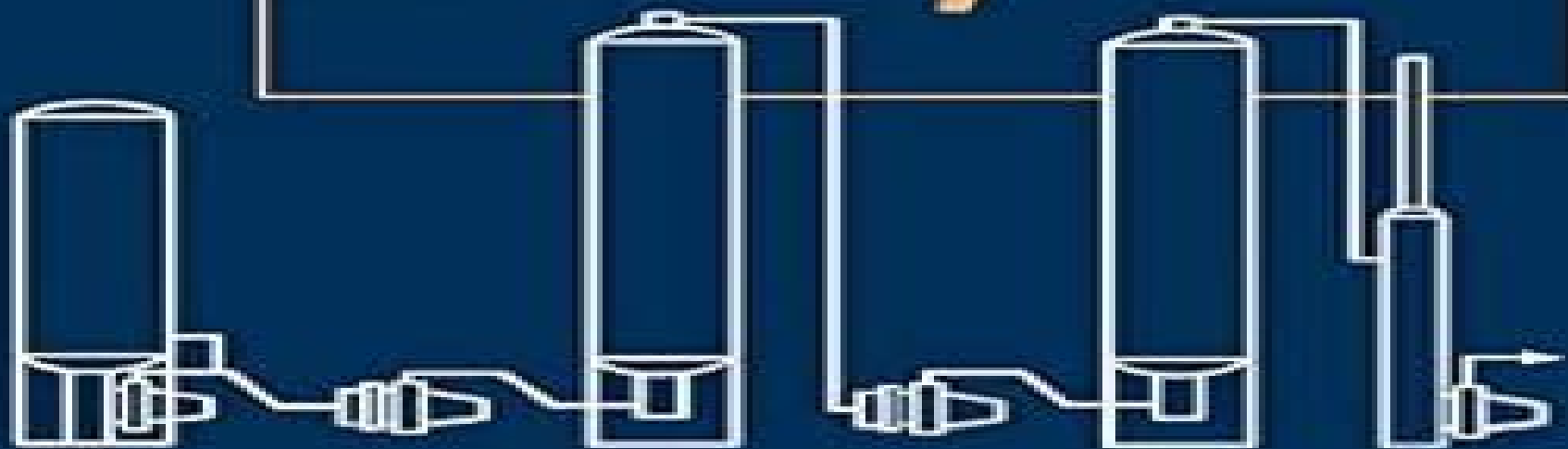


# Environmentally Friendly Technologies for the **Pulp and Paper Industry**



Edited by  
**Raymond A. Young**  
**Masood Akhtar**

# Environmentally Friendly Technologies For The Pulp And Paper Industry

**Pratima Bajpai**



## **Environmentally Friendly Technologies For The Pulp And Paper 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

*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 nutrification 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 *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      **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      **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      *Environmentally Benign Approaches for Pulp Bleaching* Pratima Bajpai, 2005-09-23 1 Introduction 2 General background 3 Options for environmentally benign bleaching 4 ECF and TCF bleaching 5 Chlorine free bleaching of secondary fibers 6 Closed cycle bleach plant      **Lignin and Lignans** Cyril Heitner, Don Dimmel, John Schmidt, 2016-04-19 Over the past four decades there has been immense progress in every area of lignin science ranging from the enzymology of lignin biodegradation to the delignification of wood fiber during pulping and bleaching to advances in spectroscopy Lignin and Lignans Advances in Chemistry captures the developments that have been achieved by world class      *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      **Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology** James A. Kent, 2007-10-08 This substantially revised and updated classic reference offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on

the chemistry engineering economics and infrastructure of the industry The two volume Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in the book's new chapters Handbook of Industrial Chemistry and Biotechnology James A. Kent, Tilak V. Bommaraju, Scott D. Barnicki, 2017-08-01 This widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology Industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production pesticide manufacture and use and the principles of sustainable chemical practice referred to as green chemistry Finally considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness It is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so knowledgeably *Progress in Sustainable Development Research* Roberto Antonio Lopez, 2008 This book presents new and important research advances in the field of sustainable development which has been defined as balancing the fulfilment of human needs with the protection of the Natural environment so that these needs can be met not only in the present but in the indefinite future The term was used by the Brundtland Commission which coined what has become the most often quoted definition of sustainable development as development that meets the needs of the present without compromising the ability of future generations to meet their own need The field of sustainable development can be conceptually broken into four constituent parts environmental sustainability economic sustainability social sustainability and political sustainability **Fungal Applications in Sustainable Environmental Biotechnology** Diane Purchase, 2016-09-13 Fungi are distinct eukaryotic organisms renowned for their remarkable biodiversity and extensive habitat range Many fungal species have long been exploited for food and medicines This volume considers other important applications of fungal biotechnology especially in an environmental context showcasing the essential contributions of these amazingly versatile organisms It explores how fungi offer sustainable solutions to tackle various environmental concerns Written by eminent experts in their fields this work presents a broad array of current advances and future prospects in fungal environmental biotechnology and discusses their limitations and potential The book is organized in five parts each addressing a theme of the UN Sustainable Development Goals SDG strengthen food security Zero Hunger wastewater treatment Clean Water Sanitation pollution reduction Life on Land biofuel production Affordable Clean Energy and biosynthesis of novel biomolecules Responsible Consumption Production *Concise Encyclopedia of Composite Materials* Andreas Mortensen, 2006-12-08 Concise Encyclopedia of Composite Materials draws its material from the award winning Encyclopedia of Materials Science and Technology and includes updates and revisions not

available in the original set This customized collection of articles provides a handy reference for materials scientists and engineers with an interest in composite materials made from polymers metals ceramics carbon biocomposites nanocomposites wood cement fibers etc Brings together articles from the Encyclopedia of Materials Science extensive bibliographies cross referencing and indexes guide the user to the most relevant reading in the primary literature Covers areas of active research such as biomaterials and porous materials

**Biotechnology for Fuels and Chemicals** Jonathan R. Mielenz, K. Thomas Klasson, William S. Adney, James D. McMillan, 2009-12-24 In Biotechnology for Fuels and Chemicals The Twenty Eighth Symposium leading US and international researchers from academia industry and government exchange cutting edge technical information and update current trends in the development and application of biotechnology for sustainable production of fuels and chemicals This symposium emphasizes advances in biotechnology to produce high volume low price products from renewable resources while improving the environment The major areas of interest include advanced feedstock production and processing enzymatic and microbial biocatalysis bioprocess research and development opportunities in biorefineries and commercialization of biobased products International and domestic progress on producing liquid biofuels especially ethanol and biodiesel is highlighted and related topics including bioseparations and optimal integration of biochemical and thermochemical conversion technologies are featured Forward looking and authoritative

**Biotechnology for Fuels and Chemicals The Twenty Eighth Symposium** provides an illuminating overview of current research and development in the production of commodity fuels and chemicals from renewable biomass resources via biochemical and thermochemical routes

*Commercializing Biobased Products* Seth W. Snyder, 2016 Biobased products offer substantial economic and environmental benefits but understanding how to commercialize this requires a comprehensive look at the process including feedstocks technologies product slate supply chain policy financing and environmental impact Covering biobased products in a broad context this book examines the environmental and economic impacts compares US and EU policies explores the factors affecting financing and considers biological conversion catalytic conversion and separations By examining the process from several critical perspectives in the supply chain this book provides chemical engineers with a better understanding of challenges opportunities risks and benefits of commercialization

Wood Production, Wood Technology, and Biotechnological Impacts Ursula Kües, 2007 In the year 2001 Prof Dr Ursula Kües was appointed at the Faculty of Forest Sciences and Forest Ecology of the Georg August University Göttingen to the chair Molecular Wood Biotechnology endowed by the Deutsche Bundesstiftung Umwelt DBU Her group studies higher fungi in basic and applied research Research foci are on mushroom development and on fungal enzymes degrading wood and their applications in wood biotechnology This book has been edited to thank the DBU for all support given to the chair Molecular Wood Biotechnology Contributions to the book are from scientists from Göttingen recognised in different fields of forestry and wood science Chapters presented by members of the group Molecular Wood Biotechnology introduce into their areas of research The

book is designed for interested students of wood biology and wood technology but will also address scientists in the field

**Paper and Composites from Agro-Based Resources** Roger M. Rowell, Judith Rowell, 1996-10-15 Sustainable development is an important concept underlying many of today's renewable resource policies. Agro-based resources such as wood make up a significant portion of modern renewable resources. While probably the most familiar example, wood is only one type of agromass in the vast world of photosynthetic resources. **Paper and Composites from Agro-Based Resources** explores the great number of options available for producing paper and composites. Using sound ecosystem management principles, the book discusses strategies for obtaining fiber from plant-based resources including agricultural crops and residues, grasses, and recycled agro-based resources in addition to wood. **Bamboo** H.P.S. Abdul Khalil, 2018-05-30 The idea of information on research and development carried out on bamboo has emerged with the paradigm shift in the area of utilization of natural fibres in various industries. Technological advancements in bamboo sustenance have involved chemical and physical modification that has led to products of high performance index. This book provides the latest research developments in many aspects of bamboo process, manufacture, and commercialization potential. Apart from the interest to facilitate a complete assessment of bamboo as well as assist readers in achieving their goals, this book is intended to be of value to both fundamental research and also to practicing scientists and will serve as a useful reference for researchers, agricultural practitioners, and organizations involved in the bamboo-based industry. **Fungal Biorefineries** Sachin Kumar, Pratibha Dheeran, Mohammad Taherzadeh, Samir Khanal, 2018-07-04 This book covers the applications of fungi used in biorefinery technology. As a great many different varieties of fungal species are available, the text focuses on the various applications of fungi for production of useful products including organic acids, lactic, citric, fumaric, hydrolytic enzymes, amylase, cellulases, xylanases, ligninases, lipases, pectinases, proteases, advanced biofuels, ethanol, single cell oils, polyols, xylitol, single cell protein, animal feed, secondary metabolites, and much more. **biochemical sciences: health and environmental aspects** ,

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