

Mechanical Pulp Bleaching

- After the refining process, the resulting fibers do not have the brightness required for most paper applications. Bleaching is therefore required.
- Goal of mechanical pulp bleaching:
 - » Brighten the pulp with little yield loss.
- There are two approaches to this problem:
 - » Reducing the colored structures.
 - » Oxidizing the colored structures.

Bleaching Technology For Chemical And Mechanical Pulps

G Psacharopoulos



Bleaching Technology For Chemical And Mechanical Pulps:

Bleaching Technology for Chemical and Mechanical Pulps Ken L. Patrick, 1991 **Technologies for Reducing Dioxin in the Manufacture of Bleached Wood Pulp**, 1989 Chemistry for Biomass Utilization Raimo Alén, 2023-12-04 Much interest has been directed to the versatile possibilities of using lignocellulosic biomass resources i.e. renewable raw materials for the full scale production of various chemicals and other bioproducts together with solid liquid and gaseous fuels Introduces modern aspects and various technologies of lignocellulosic biomass conversion for producing chemicals biofuels and other products in a reader friendly way Starting with fundamentals of biorefinery the author further describes chemical biochemical and thermal conversion approaches In addition the properties and biorefining principles of non wood biomass feedstock *Pulping Chemistry and Technology* Monica Ek, Göran Gellerstedt, Gunnar Henriksson, 2009 The production of forestry products is based on a complex chain of knowledge in which the biological material wood with all its natural variability is converted into a variety of fiber based products each one with its detailed and specific quality requirements This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands Supported by a grant from the Ljungberg Foundation the Editors at the Royal Institute of Technology Stockholm Sweden coordinated over 30 authors from university and industry to create this comprehensive overview This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources Publisher's description *Pulping Chemistry and Technology* Monica Ek, Göran Gellerstedt, Gunnar Henriksson, 2009-12-15 This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources Volume 2 focuses on creating an understanding of the chemical and technical processes involved in the production of pulp The work treats wood handling i.e. barking chipping storage and screening processes chemistry and technology during mechanical and chemical pulp production including pulping and bleaching chemistry and technology production of bleaching chemicals at the mill recovery processes including the treatment and burning of black liquor and the white liquor preparation plant paper recycling processes changes in structure and properties of wood polymers and pulps in the pulping process line description of the equipment and processes involved in the manufacturing of pulp pulp characterization including methods available to evaluate pulp properties end product requirements *Technology and Labor in Pulp, Paper, Paperboard and Selected Converting Industries*, 1994 *Bleach Plant Effluents from the Pulp and Paper Industry* Pratima Bajpai, 2013-06-22 This book covers bleach plant effluents that most polluting effluent from the pulp and paper industry Disappearance of benthic invertebrates a high incidence of fish diseases and mutagenic effects on the aquatic fauna are some of the consequences of the disposal of bleach effluents into

surface waters This book describes environmental impact of bleach plant effluents environmental regulations and measures to reduce the pollution load by internal process modification and external treatment of bleach plant effluents

Bioconversion of Waste Materials to Industrial Products A.M. Martin, 2012-12-06 By covering both the general principles of bioconversion and the specific characteristics of the main groups of waste materials amenable to bioconversion methods this new book provides the chemical biochemical agrochemical and process engineer with clear guidance on the use of these methods in devising a solution to the problem of industrial waste products

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

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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 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

Applications of Hydrogen Peroxide and Derivatives Craig W. Jones, 1999 Begins with a historical overview and guidelines for safe handling of peroxygens then goes on to cover key activation mechanisms organic functional group oxidations and the use of hydrogen peroxide with heterogeneous catalysts Discusses clean up of environmental pollutants chemical purification and extraction of metals from their ores using examples from industry Coverage includes activation of hydrogen peroxide using inorganic and organic species synthesis of fine chemicals heterogeneous activation and applications in pulp and paper and metal finishing Distributed by Springer Verlag Annotation copyrighted by Book News Inc Portland OR

Cellulose Chemistry and Technology, 2003

Pulping and Papermaking of Nonwood Plant Fibers Z.M.A. Ainun, S. M. Sapuan, R.A. Ilyas, 2023-04-01 Pulping and Papermaking of Non wood Plant Fibres presents the latest technologies associated with the papermaking process With chapters specific to each non wood species the book provides step by step guidance on processes such as pulping bleaching blending and beating Non wood fibers are practical for pulp and paper production due to their chemical content of cellulose hemicellulose and lignin percentages Beginning with a general overview of non wood fibers in the papermaking process chapters then take a deep dive into different raw materials and their processes including bamboo corn stalk pineapple leaves and sugarcane This book is an essential resource for researchers scientists and industry specialists Provides comprehensive coverage of the processes involved in pulp and papermaking technology for each species of non wood raw materials Written by the leading research and industrial experts in the field of pulping bleaching blending beating and papermaking processes Includes step by step processes and methodologies

Lake States Regional Forest Resources Assessment, 1997

Forest Products Biotechnology Alan Bruce, John Palfreyman, 1997-11-27 Industries are developing radical new biotechnology processes to expand and develop their range of products that originate from the world's forests As a result of the growing understanding of the process involved biotechnology is also helping reduce any adverse impact on the

environment This book presents a review of specialist research direct **Handbook of Pulp, 2 Volume Set** Herbert Sixta,2006-03-17 In this two volume set Dr Herbert Sixta head of the cellulose and viscose research department at Lenzing AG in Austria has brought together a team of authors to produce the first comprehensive handbook on the market Alongside the traditional aspects of pulping processes pulp used in industry and paper pulps this book describes all pulping processes used for paper and board manufacturing as well as waste liquor treatment pulp bleaching and environmental aspects while also covering pulp properties and applications From the content Chemical Pulp Mechanical Pulp Recovered Paper and Recycled Fibers Analytical Characterization of Pulps This handbook is essential reading for all chemists and engineers in the paper and pulp industry **Food Packaging Science and Technology** Dong Sun Lee,Kit L. Yam,Luciano Piergiovanni,2008-04-01 With a wealth of illustrations examples discussion questions and case studies the Food Packaging Science and Technology covers basic principles and technologies as well as advanced topics such as active intelligent and sustainable packaging with unparalleled depth and breadth of scope Emphasizing the application of relevant scientific

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