



ENVIRONMENTALLY BENIGN APPROACHES FOR PULP BLEACHING

Second Edition



DR. PRATIMA, BAPPAI

Environmentally Benign Approaches For Pulp Bleaching Second Edition

KJ Lindholm-Leary



Environmentally Benign Approaches For Pulp Bleaching Second Edition:

Environmentally Benign Approaches for Pulp Bleaching Pratima Bajpai, P. Bajpai, 2005-08-05 Pulp and paper production has increased globally and will continue to increase in the near future Approximately 155 millions tons of wood pulp is produced worldwide and about 260 millions is projected for 2010 To cope with the increasing demand an increase in production and improved environmental performance is needed as the industry is under constant pressure to reduce environmental emissions to air and water This book gives updated information on environmentally benign approaches for pulp bleaching which can help solve the problems associated with conventional bleaching technologies Main focus is on the environmentally friendly technologies that can help solve some of the problems associated with conventional bleaching technologies Information given is up to date authoritative and cites the experiences of many mills and pertinent research which is of interest to those working in the industry or intending to do so Covers in great depth all the aspects of various bleaching processes including environmental issues *Environmentally Benign Approaches for Pulp Bleaching* Pratima Bajpai, 2012-12-31 Pulp and paper production has increased globally and will continue to increase in the near future Approximately 155 million tons of wood pulp is produced worldwide and about 260 million is projected for 2010 To cope with the increasing demand an increase in production and improved environmental performance is needed as the industry is under constant pressure to reduce environmental emissions to air and water This book gives updated information on environmentally benign approaches for pulp bleaching which can help solve the problems associated with conventional bleaching technologies Main focus is on the environmentally friendly technologies that can help solve some of the problems associated with conventional bleaching technologies Information given is up to date authoritative and cites the experiences of many mills and pertinent research which is of interest to those working in the industry or intending to do so Covers in great depth all the aspects of various bleaching processes including environmental issues 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 Environmentally Benign Approaches for Pulp Bleaching Pratima Bajpai, 2012-05-30 Pulp

and paper production has increased globally and will continue to increase in the near future Approximately 155 million tons of wood pulp is produced worldwide and about 260 million is projected for 2010 To cope with the increasing demand an increase in production and improved environmental performance is needed as the industry is under constant pressure to reduce environmental emissions to air and water This book gives updated information on environmentally benign approaches for pulp bleaching which can help solve the problems associated with conventional bleaching technologies Main focus is on the environmentally friendly technologies that can help solve some of the problems associated with conventional bleaching technologies Information given is up to date authoritative and cites the experiences of many mills and pertinent research which is of interest to those working in the industry or intending to do so Covers in great depth all the aspects of various bleaching processes including environmental issues

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

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 **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 **Plastics: Just a Load of Rubbish?** Alicia Chrysostomou,2023-10-05 Are plastics really the enemy in our fight to save the planet Enzyme Applications in Fiber Processing Karl-Erik Eriksson,Artur Cavaco-Paulo,1998 Focusing on fiber processing for pulp paper and textiles this book takes a comprehensive look at enzymatic methods which avoid the use of harsh chemicals It is divided into separate sections devoted to pulp and paper and to textiles *Journal of Pulp and Paper Science* ,1998 *Appita Journal* ,2004 *Tappi Journal* ,2000 *Journal of Scientific and Industrial Research* ,2004 **Abstract Bulletin of the Institute of Paper Chemistry** ,1987 Paper ,1992 **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio,2005-05 *Issues in Resource Conservation* Meghan Clancy-Hepburn,Nicole Capretz,1998 *Book of Abstracts* ,2000 *American Papermaker* ,1994 Proceedings of the 1997 Georgia Water Resources Conference Kathryn J. Hatcher,1997

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