



# **APPLICATION OF BIOTECHNOLOGY IN PULP AND PAPER PROCESSING**

*Edited by: Preethi Kartan*

# Biotechnology For Pulp And Paper Processing

**P. Somasundaran**

## **Biotechnology For Pulp And Paper Processing:**

**Biotechnology for Pulp and Paper Processing** Pratima Bajpai,2011-11-24 This book provides the most up to date information available on various biotechnological processes useful in the pulp and paper industry Each of the twenty chapters covers a specific biotechnological process or technique discussing the advantages limitations and future prospects of the most important and popular processes used in the industry Topics covered include tree improvement pulping bleaching deinking fiber modification biosolids management and biorefining

**Biotechnology for Pulp and Paper Processing** ,2011-11-25 **Biotechnology for Pulp and Paper Processing** Pratima Bajpai,2018-12-29 The book provides the most up to date information available on various biotechnological processes useful in the pulp and paper industry The first edition was published in 2011 covering a specific biotechnological process or technique discussing the advantages limitations and prospects of the most important and popular processes used in the industry Many new developments have taken place in the last five years warranting a second edition on this topic The new edition contains about 35% new material covering topics in Laccase application in fibreboard biotechnology in forestry pectinases in papermaking stickies control with pectinase products from hemicelluloses value added products from biorefinery lignin use of enzymes in mechanical pulping

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Application of Biotechnology in Pulp and Paper Processing Preethi Kartan,2018-12 Application of Biotechnology in Pulp and Paper Processing describes the techniques like enzymes engineering molecular biology proteomics genetic engineering genomics along with metabolomics and bioinformatics These biotechniques in 21st century have helped in development of pulp and paper sector in terms of economic feasibility and designing As described biotechnology is known for increasing cost efficiency product quality and developing environment friendly processes Further readers have been provided with some extended topics like Biodegradation of Endocrine Disrupting chemicals and residual organic pollutants of pulp and paper mill effluent by bio stimulation **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 **Biotechnology for Improving Pulp and Paper Processing** Centre Technique du Papier (Grenoble, França), Cost E23 Action Biotechnology in the Pulp and Paper Industry, 2002 **Enzymes for Pulp and Paper Processing** Thomas William Jeffries, 1996 Discusses the use of microbial enzymes in several aspects of pulp and paper processing Examines the mechanisms for enzyme bleaching and presents information on the commercialization of enzymatic bleaching with microbial xylanases Discusses the use of cellulases to enhance fibrillation and remove contaminants from recycled fibers **Pulp and Paper Industry** Pratima Bajpai, 2015-04-09 Pulp and Paper Industry Chemicals features in depth and thorough coverage of Chemical additives in the Pulp and Paper Industry It discusses use of Enzymes Green Chemicals that can improve operations in pulp and paper describes Chemicals demanded by the end user and many key and niche players such as Akzo Nobel NV Eka Chemicals AB Ashland Inc BASF Buckman Laboratories International Inc Clariant Cytec Industries Inc Enzymatic Deinking Technologies LLC ERCO Worldwide FMC Corporation Georgia Pacific Corporation Georgia Pacific Chemicals LLC Imerys SA Momentive Specialty Chemicals Inc Novozymes Kemira Chemicals Nalco Holding Company Omya AG Solvay AG and Solvay Chemicals Inc 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 Environmental concerns increased use of recycled waste paper as a replacement for virgin pulp changes in bleaching and pulping processes increased efficiency requirements for the papermaking process limits on effluent discharge as well as international competitiveness have greatly impacted the paper and pulp chemical additive market This book features in depth and thorough coverage of Chemical additives in Pulp and Paper Industry Detailed and up to date coverage of Chemicals in Pulp and Paper Industry Authoritative thorough and comprehensive content on a wide variety of Enzymes Green Chemicals Comprehensive list of Paper and Pulp Related Chemicals Comprehensive list of all Pulp and paper Suppliers Comprehensive Indexing *Enzymes for Pulp and Paper Processing*, 1996 **Microbial Xylanolytic Enzymes** Pratima Bajpai, 2022-05-29 Microbial Xylanolytic Enzymes describes the enzyme structure and its interaction with plant cell walls the properties and production of different enzymes and their applications and the knowledge gathered on the hydrolysis mechanism of hemicellulose The knowledge gathered about the hydrolysis mechanism of the hemicelluloses especially xylans has greatly promoted the rapid application of these enzymes in new areas In recent years there has been a spurt of interest in xylan degrading enzymes due to their applications in several industrial processes including paper and pulp industries food and feed industries biofuel industry textile industry chemical and pharmaceutical industry brewing industry and more Xylan is the principal type of hemicellulose An enzymatic complex is responsible for the hydrolysis of xylan but the main enzymes involved are enzymes produced by fungi bacteria yeast algae protozoans and more Gives up to date authoritative information and cites pertinent research on the synergistic action of xylanolytic enzymes Includes studies on xylanase regulation and synergistic action between multiple forms of xylanase Covers in great depth all aspects of Xylanolytic enzymes Includes

detailed descriptions on Xylanolytic enzymes as a supplement in animal feed for the manufacture of bread food and drinks textile industry pulp and paper industry biofuel industry and production of pharmaceuticals and important chemicals and waste management etc Challenges future trends in the commercial production and application of xylanases

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

**Pulp Production and Processing** Valentin Popa, 2013-09-23

Cellulose represents the most widely spread organic polymer found in nature and it was used for a long time as a raw material for paper, textiles, film and flexible packing material. Due to its accessibility in huge amounts by photosynthesis process as a renewable material cellulose is considered at present the answer to many problems connected with sustainable development. This explains the great scientific interest for this compound along with a lot of preoccupations to systematize the accumulated information in reviews and books. This book will present the aspects of cellulose obtaining in the correlation with its integration in a new concept of biorefining. Thus usual technological steps of pulp manufacture, pulping, bleaching will be continued with chemistry characteristics of by products and their utilization, fiber characterization for paper obtaining cellulose derivatives and special products resulted in cellulose processing, beads and microspheres, micro and nano structures, fibers production, their antibacterial properties, optical functional film and hydrogen. This extensive book should prove to be a very useful tool for scientists, students and postgraduates working in the field of pulp, paper and cellulose derivatives aiming at opening a new era for renewable resources processed by biorefining

**Biotechnology in Pulp and Paper Manufacture** T. Kent Kirk, Hou-Min Chang, 2013-10-22 Biotechnology in Pulp and Paper Manufacture Applications and Fundamental Investigations documents the proceedings of the Fourth International Conference on Biotechnology in the Pulp and Paper Industry held in Raleigh NC and Myrtle Beach SC on 16-19 May 1989. This volume contains 68 selected papers organized into seven parts. Part I deals with cell wall degradation and biopulping. It includes papers such as energy savings in biomechanical pumping and biological degradation and delignification of rice straw. Part II on the enzyme and fungal treatment of pulps presents studies on the improvement of pulp properties by treatment with enzymes or with whole

cells Part III reports on research on new biological treatments for wastewaters produced by the created by the pulp and paper industry Part IV discusses the conversion of pulping and papermaking byproducts to more valuable products via fermentation Parts V and VI are devoted to fundamental studies on lignin biodegradation and on cellulose and hemicellulose biodegradation respectively Part VII focuses on molecular genetics research on lignocelluloses degrading microorganisms

*Poster Session Centre Techique du Papier,2002 Biotechnology for Environmental Protection in the Pulp and Paper Industry* P. Bajpai,R. Kondo,2012-12-06 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 the year 2010 To be able to cope with increasing demand an increase in productivity and improved environmental performance is needed as the industry is also under constant pressure to reduce and modify environmental emissions to air and water The authors give updated information on various biotechnological processes useful in the pulp and paper industry which could help in reducing the environmental pollution problem in addition to other benefits Various chapters deal with the latest developments in such areas as raw material preparation pulping bleaching water management waste treatment and utilization The book also covers the environmental regulations in various parts of the world as well as the role of biotechnology in reducing environmental problems **Biotechnology for Improving Pulp and Paper Processing, 28-29 November 2002, Centre Technique Du Papier, Grenoble, France** European Cooperation in the Field of Scientific and Technical Research (Organization). COST E23 Action. Workshop,Centre technique du papier,2002 COST E23 Action,2003 **Encyclopedia of Surface and Colloid Science** P. Somasundaran,2006 **Biotechnology for Clean Industrial Products and Processes** ,1998 With erratum

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