



*Papermaking Science and Technology*



*Revised Edition*  
**P**apermaking Chemistry  
*Totally updated*

# Papermaking Science And Technology 4 Papermaking Chemistry

**Ilari Filpponen, Maria Peresin, Tiina  
Nypelo**



## **Papermaking Science And Technology 4 Papermaking Chemistry:**

**Papermaking Science and Technology** Leo Neimo,1999      *Papermaking Chemistry* Raimo Alén,2007      Pulp and Paper Chemistry and Technology Monica Ek,Göran Gellerstedt,Gunnar Henriksson,2009      **Biotechnology for Pulp and Paper Processing** Pratima Bajpai,2018-02-14 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      Pulp and Paper Industry Pratima Bajpai,2017-02-25 *Pulp and Paper Industry Emerging Waste Water Treatment Technologies* is the first book which comprehensively reviews this topic Over the past decade pulp and paper companies have continued to focus on minimizing fresh water use and effluent discharges as part of their move towards sustainable operating practices Three stages basic conservation water reuse and water recycling provide a systematic approach to water resource management Implementing these stages requires increased financial investment and better utilization of water resources The ultimate goal for pulp and paper companies is to have effluent free factories with no negative environmental impact The traditional water treatment technologies that are used in paper mills are not able to remove recalcitrant contaminants Therefore advanced water treatment technologies are being included in industrial wastewater treatment chains aiming to either improve water biodegradability or its final quality This book discusses various measures being adopted by the pulp and paper industry to reduce water consumption and treatment techniques to treat wastewater to recover it for reuse The book also examines the emerging technologies for treatment of effluents and presents examples of full scale installations Provides thorough and in depth coverage of advanced treatment technologies which will benefit the industry personnel pulp manufacturers researchers and advanced students Presents new treatment strategies to improve water reuse and fulfill the legislation in force regarding wastewater discharge Presents viable solutions for pulp and paper manufacturers in terms of wastewater treatment Presents examples of full scale installations to help motivate mill personnel to incorporate new technologies

*CRC Handbook of Thermal Engineering* Raj P. Chhabra,2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale

and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe Handbook of Pulping and Papermaking Christopher J. Biermann,1996-08-01 In its Second Edition Handbook of Pulping and Papermaking is a comprehensive reference for industry and academia The book offers a concise yet thorough introduction to the process of papermaking from the production of wood chips to the final testing and use of the paper product The author has updated the extensive bibliography providing the reader with easy access to the pulp and paper literature The book emphasizes principles and concepts behind papermaking detailing both the physical and chemical processes A comprehensive introduction to the physical and chemical processes in pulping and papermaking Contains an extensive annotated bibliography Includes 12 pages of color plates 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 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 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

*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 **Lignocellulosics** Ilari Filpponen,Maria Peresin,Tiina Nypelo,2020-03-14

**Lignocellulosics** Renewable Feedstock for Tailored Functional Materials and Nanotechnology gives a comprehensive overview of recent advances in using lignocellulosic substrates in materials science and nanotechnology The functionalization and processing of lignocellulosics are described via a number of examples that cover films gels sensors pharmaceuticals and energy storage In addition to the research related to functional cellulose nanomaterials there has been an increased interest in research on lignin and lignocellulosics This book explains how utilizing biomaterials as a raw material allows ambitious reconstruction of smart materials that are green and multifunctional As lignin as a valuable material has gained a lot of attention in the last few years shifting from purely extraction and fundamental characterization and now also focusing on the preparation of exciting materials such as nanoparticles readers will find this to be a comprehensive resource on the topic Provides a detailed description of functional lignocellulosic materials and their properties Brings together research advances in the areas of chemistry chemical engineering physics and materials science Concentrates on the fundamental properties of

lignocellulose Includes unique coverage of lignin research      *Chemistry of Modern Papermaking* Cornel Hagiopol, James W. Johnston, 2011-09-08 Chemistry of Modern Papermaking presents a chemist's perspective on the papermaking process With roughly 3% of the mass of a paper product invested in water soluble chemicals paper makers can adjust the speed and efficiency of the process minimize and reuse surplus materials and differentiate a paper product as required by specific customers W      Handbook of Paper and Board Herbert Holik, 2013-03-25 Papermaking is a fascinating art and technology The second edition of this successful 2 volume handbook provides a comprehensive view on the technical economic ecologic and social background of paper and board It has been updated revised and largely extended in depth and width including the further use of paper and board in converting and printing A wide knowledge basis is a prerequisite in evaluating and optimizing the whole process chain to ensure efficient paper and board production The same is true in their application and end use The book covers a wide range of topics Raw materials required for paper and board manufacturing such as fibers chemical additives and fillers Processes and machinery applied to prepare the stock and to produce the various paper and board grades including automation and trouble shooting Paper converting and printing processes book preservation The different paper and board grades as well as testing and analysing fiber suspensions paper and board products and converted or printed matters Environmental and energy factors as well as safety aspects The handbook will provide professionals in the field e.g. papermakers as well as converters and printers laymen students politicians and other interested people with the most up to date and comprehensive information on the state of the art techniques and aspects involved in paper making converting and printing      **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      *Papermaking, Converting, Allied Science and Technology*, 1967      *Recycling and Deinking of Recovered Paper* Pratima Bajpai, 2024-06-26 Recycling and Deinking of Recovered Paper Second Edition covers recent advances in recycling technologies This second edition examines this new process which is more eco friendly than the virgin papermaking process and which uses less energy and natural resources produces less solid waste and fewer atmospheric emissions and helps to preserve natural resources and landfill space In addition the most recent information about the recycling of fibers into various grades of paper and board the control of stickies and the effects of recycled fiber on paper machines are also covered Recycling technologies

have been improved in recent years due to advances in pulping flotation deinking and cleaning screening resulting in the quality of paper made from secondary fibers remarkably approaching that of virgin paper Covers all aspects of recycling technologies in great depth Offers up to date authoritative information and cites many mills experiences and pertinent research Examines the use of biotech methods for deinking refining improving drainage and stickies control Includes new case studies on paper recycling Handbook of Sustainable Polymers Vijay Kumar Thakur,Manju Kumari Thakur,2016-04-27 Sustainable polymers play an indispensable role in the emergence of green materials and the 21st century is an era of sustainable polymeric materials Sustainable polymer based materials have attracted considerable interest because of the energy crisis and ecological concerns as well as the potential to substitute certain petroleum derived materia *Physical-Chemical Mechanics of Disperse Systems and Materials* Eugene D. Shchukin,Andrei S. Zelenev,2015-12-02 Physical Chemical Mechanics of Disperse Systems and Materials is a novel interdisciplinary area in the science of the disperse state of matter It covers the broad spectrum of objects and systems with dimensions ranging from nanometers to millimeters and establishes a fundamental basis for controlling and tuning the properties of these systems as w Encyclopedia of Forest Sciences Julian Evans,John A. Youngquist,2004-04-02 A combination of broad disciplinary coverage and scientific excellence the Encyclopedia of Forest Sciences will be an indispensable addition to the library of anyone interested in forests forestry and forest sciences Packed with valuable insights from experts all over the world this remarkable set not only summarizes recent advances in forest science techniques but also thoroughly covers the basic information vital to comprehensive understanding of the important elements of forestry The Encyclopedia of Forest Sciences also covers relevant biology and ecology different types of forestry e g tropical forestry and dryland forestry scientific names of trees and shrubs and the applied economic and social aspects of forest management Valuable key features further enhance the utility of this Encyclopedia as an exceptional reference tool Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.infosciencedirect.com](http://www.infosciencedirect.com) Edited and written by a distinguished group of editors and contributors Well organized encyclopedic format provides concise readable entries easy searches and thorough cross references Illustrative tables figures and photographs in every entry produced in full color Comprehensive glossary defines new and important terms Complete up to date coverage of over 60 areas of forest sciences sure to be of interest to scientists students and professionals alike Editor in Chief is the past president of the International Union of Forestry Research Organizations the oldest international collaborative forestry research organization with over 15 000 scientists from 100 countries

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