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Chemical Technology Volume 1

Pulp And Paper Chemistry And Chemical Technology Volume 1

Pulp and Paper Industry: Chemical Recovery examines the scientific and technical advances that have been made in chemical recovery, including the very latest developments. It looks at general aspects of the chemical recovery process and its significance, black liquor evaporation, black liquor combustion, white

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liquor preparation, and lime reburning. The book also describes the technologies for chemical recovery of nonwood black liquor, as well as direct alkali regeneration systems in small pulp mills. In addition, it includes a discussion of alternative chemical recovery processes, i.e. alternative causticization and gasification processes, and the progress being made in the recovery of filler, coating color, and pigments. Furthermore, it discusses the utilization of new value streams (fuels and chemicals) from residuals and spent pulping

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liquor, including related environmental challenges. Offers thorough and in-depth coverage of scientific and technical advances in chemical recovery in pulp making Discusses alternative chemical recovery processes, i.e., alternative causticization and gasification processes Covers the progress being made in the recovery of filler, coating color, and pigments Examines utilization of new value streams (fuels and chemicals) from residuals and spent pulping liquor Discusses environmental challenges (air emissions, mill

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closure) Presents ways in which the economics, energy efficiency, and environmental protection associated with the recovery process can be improved

Other volumes in the latest edition of Pulp and Paper: Chemistry and Chemical Technology, 3rd Ed. Edited by James P. Casey Volume 1 Contents: Cellulose and Hemicellulose (G.D. McGinnis and F. Shaftzadeh). Lignin (W.G. Glasser). Pulpwood (W.J. Bublitz). Pulping (J.N. McGovern, W.F. Daniell, et al.). Bleaching (V. Lorås). Appendix. Index. 1980 Volume 3

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Contents: Dry Strength Resins (W.F. Reynolds). Dry Strength Resins (R.B. Wasser). Natural Products for Wet-End Addition (B.T. Hofreiter). Filling and Loading (E. Bohmer). Internal Sizing (J.J. Keavney). Internal Sizing (R.J. Kulick). Retention Chemistry (K.W. Britt). Retention Chemistry (J. E. Unbehend). Wet Strength (K.W. Britt). Dyeing (H.A. Lips). Surface Sizing (M.L. Cushing). Properties of Paper (C.E. Brandon). 1980M/p> Volume 4
Contents: Pigment Coating (C.L. Casey). Printing (M.H. Bruno). Reprography (M,A.

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Nielsen). Laminating (C.U. Turner).
Corrugating (A.J. DiDominias). Corrugating
(G.H. Klein). Paper Reinforcement by Polymer
Addition (J.F. Waterhouse). Paper Laminates
(J.L. Robertson). Aqueous and Solvent
Coatings (L.J. Carlson). Extrusion and Hot Melt
Coatings (K. Palenik). 1981
Pulp and Paper. Chemistry and Chemical
Technology. Second Edition, Revised and
Enlarged
Pulping Chemistry and Technology
Pulp and Paper Processing

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Pulp and Paper - Chemistry and Chemical Technology Vol 2- Properties of Paper and Converting

Summary: 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

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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

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Paper Products Physics and Technology

Green Chemistry and Sustainability in Pulp and Paper Industry

Chemistry of Pulp and Paper Making

Chemistry and Chemical Technology

Pulp and Paper Chemistry and Chemical Technology, Volume 2 Wiley-Interscience

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An in-depth look at the chemistry and chemical technology involved in the manufacture of pulp and paper, the properties of paper, and the uses for paper. This new edition contains contributions by forty recognized authorities in the field. Emphasizes the underlying science and technology and reviews, in detail, chemical and engineering principles. Includes numerous tables, illustrations, and a complete bibliography.

Wood chemistry and wood biotechnology

Pulp and Paper Chemistry and Technology: Paper products physics and technology

Pulp and Paper - Chemistry and Chemical Technology revised and enlarged ; Volume 1 : Pulping and Bleaching

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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

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papermaking Contains an extensive annotated bibliography Includes 12 pages of color plates

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

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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

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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.

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Paper chemistry and technology
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Pulp and Paper - Chemistry and Chemical
Technology revised and enlarged ; Volume 2 :
Papermaking

The paper conversion sectors are assuming increasingly important place in the life of every nation. Conversion technology is being evolved continuously for having better conversion, handling, transportation, preservation and usage of materials. Paper and Pulp industry plays a vital role towards conversion. Pulping is a process of delignification removing lignin from wood while leaving cellulose fibres intact. Pulp and paper can be produced from many resources like; Eta Reed, bamboo, bagasse, elephant grass, etc. Growing population and increased demand of

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paper products has created raw material shortage all over the world especially in developing countries. Consequently agricultural residues and farm wastes are the only hope for further pulp papermaking in these countries. However, technology is evolving that holds promise for using waste or recycled paper and, in some cases, even plastics to make an array of high performance composite products that are in themselves potentially recyclable. Pulp and paper industry is one of the largest industries in India today, which consumes huge quantity of water. As the product does not contain any water most of the water used in the process reappears as waste. Therefore the waste water is used in crop irrigation which will solve both problems i.e. industrial waste solution and irrigation. The Indian paper industry has close linkages with economic growth as higher

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industrial output leads to increased demand for industrial paper for packaging, increased marketing spend benefits the newsprint and value added segments, and increased education and office activities increase demand for writing and printing paper. It is estimated that there is an economic growth of 8.5% for India which will benefit the demand for paper. The major contents of the book are dry process hard boards from recycled newsprint paper fibres, abrasive kraft base paper from sun hemp (croton tiglium), production of soda semi chemical pulp from sesbania sesban (linn.) merr., high yield pulps from eta reed, the influence of clay addition on flotation deinking, alternative uses for waste/paper in wood based composite products, deinking of flexographic newsprint: use of ultra filtration to close the water loop etc. This book also consists of alkaline pulping chemistry,

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manufacturers, suppliers of plant & machinery and allied products, manufacturers and suppliers of raw materials, imported pulp manufacturers & suppliers imported pulp, Indian agents for imported pulp etc. In view of the close linkage between paper and conversion industry we have tried to come out with this unique book containing relevant and useful information in both these industries. We have tried to make it most exhaustive first giving details, then presenting and dividing in different chapter to understand better. Thus we have tried to fill the vacuum that existed fill now. This book will be useful for paper chemists as well as conversion industries.

This book gives emphasis to wood fiber raw materials, alternative sources of fibers for paper production, environmental issues, paper quality improvement and cost of paper production. Varieties

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of non-wood raw materials, including kenaf, rice straw, empty fruit bunches of palm trees, bamboo, bagasse, etc., are considered in this book. The process of fiber treatment also varied to meet paper quality improvement. Different organosolv processes of fiber treatment are discussed. Considering contemporary issues, one particular chapter analyzes the environmentally friendly way of processing non-wood fibers for paper production. The book also contains a chapter on the by-product raw materials of paper production and their profitable applications.

Pulp and Paper: Papermaking

Pulp and Paper: chemistry and chemical technology, etc

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Pulp and Paper: Pulping and bleaching

"The production of forestry products is based on a complex

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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.

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Cellulose. Fibrous raw materials. Rags and non-woody materials. The sulfate process. The soda process. The sulfite process. Groundwood. Miscellaneous pulping and pulp-treating processes. Bleaching. Sizing. Loading and filling. Coloring. Coated papers. Water. Testing wood pulp. Paper testing. Printing. Moisture relations of pulp and paper.

Pulp and paper

Chemistry and Chemical Technology, Volume 1

Paper Chemistry and Technology

Wood Chemistry and Wood Biotechnology