Modern Technology of Pulp, Paper and Paper Conversion Industries

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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 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 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 (crotolaria jauncia), 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 flexo graphic newsprint: use of ultra filtration to close the water loop etc. This book also consists of alkaline pulping chemistry, 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.

- 1. Dry-Process Hard-Boards From Recycled Newsprint Paper Fibers
- 2. Abrasive Kraft Base Paper from Sun Hemp (Crotolaria Jauncia)
- 3. Production of Soda Semi-Chemical Pulp from Sesbania Sesban (Linn.) Merr.
- 4. High Yield Pulps from Eta Reed
- 5. The Influence of Clay Addition on Flotation Deinking
- 6. Alternative Uses for Waste/Paper in Wood-Based Composite Products
- 7. Deinking of Flexo-Graphic Newsprint: Use of Ultrafiltration to Close the Water Loop
- 8. Utilization of Lime
- 9. Recent Developments in Paper Drying
- 10. Pulp and Paper Making From Agricultural Residues and Agro-Wastes
- 11. High Yield Pulps from Bamboo
- 12. Semichemical Pulping of Bagasse
- 13. Modified Pulping Process for Newsprint Grade Pulps from Bagasse
- 14. Delignification of Bagasse Pulps using Oxygen and Alkali
- 15. Production of Kraft Paper from Elephant Grass
- 16. Water Hyacinth (Eichhornia Crassipes) for Papers & Boards
- 17. Urena Lobata Linn. : A New Fibre Crop for Pulp & Paper
- 18. AQ Additive Copulping of Hard Wood and Soft Wood
- 19. Improved Penetration of Pulping Reagents into wood
- 20. The use of Polysac-Charide Derivatives for Better Yields in Paper Manufacture
- 21. Gemelina Arborea (Gamari) Pulping Alone and Mixed with Bamboo
- 22. Beloit "Converflo" Headbox Concept & Development
- 23. Grinding of M.G. Cylinder in Position
- 24. Pulping Equipment for Agricultural Residues
- 25. Paper Machine Design for non-Wood Fibres
- 26. Design of Concentrator Systems for Indian Raw Material
- 27. Standardisation of Pulp Mill Effluent for Irrigation Purposes
- 28. Effluent Treatment of Newsprint Mill by Using Coal ASH
- 29. Sludge Characteristics and Disposal Alternatives for the Pulp and Paper Industry
- 30. Quantification of Plastic in Pulp Slurries
- 31. Smelters for Chemical Recovery
- 32. Environmentally Sound Alternatives for Upgrading Mixed Office Waste
- 33. Drying of Paper
- 34. Brightness and Opacity of Paper
- 35. Paper Machine-Forming Section
- 36. Corrugated Containers
- 37. Ranking of Papers by in Plane Tear Strength and Elmendors Tear Strength
- 38. Boxboard
- 39. Alkaline Pulping Chemistry
- 40. Manufacturers, Suppliers of Plant & Machinery and Allied Products
- 41. Manufacturers and Suppliers of Raw Materials
- 42. Imported Pulp Manufacturers & Suppliers Imported Pulp
- 43. Indian Agents for Imported Pulp

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