
Raw Material Preparation: Debarking, chipping, Chip screening, Storage.

Pulping: Chemical, Semi-chemical, Mechanical, Chemi-mechanical, Non conventional, Secondary fibre pulping, Advances and recent trends in pulping.

Chemical Recovery: Composition and properties of black liquor, Oxidation and desilication, Concentration of black liquor and its incineration, Causticizing and clarification, Sludge washing and burning.

Bleaching: Objectives of bleaching, Bleachability measurement, Bleaching chemicals and their production, single and multi-stage bleaching processes, Bleaching of chemical and mechanical pulp, Colour reversion of bleached pulp, Control procedures in bleaching, Biobleaching, Recent trends in bleaching technology, Water reuse and recycle in bleaching.

Pulp Processing: Deknotting, Defibering, Brown stock washing, Screening, Cleaning, Thickening, Blending, Beating and refining, Specific edge load concept in refining.


Paper Properties: Physical (optical, strength, and resistance), Chemical and electrical properties, Paper defects, Variables affecting paper properties.

Text Books:

Reference Books:

Approved by the 74th meeting of the Senate (Feb 19, 2011)