

A practical approach for eradication of fluff problem in paper industry: causes and remedies

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ABSTRACT

In South Asian countries, most of the paper manufacturers and printers are facing the problem of fluff generation during paper manufacturing and paper printing which results in poor machine runnability, production loss, increased ink consumption and reduction in the print impression per hour. Aiming this, anatomical, morphological and chemical characterizations of common hardwoods and agro-based residues with respect to fluff generation were summarized. The mechanism of press picking during printing was also discussed. The various paper machine process parameters and use of bio-chemical methods to mitigate fluff generation due to vessels and parenchymatous cells were discussed.