

LIGNOCELLULOSE, EGENSKABER/ ANVENDELSER

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, LIGNOCELLULOSE, PROPERTIES/UTILIZATIONS

Key words: Lignocellulose, conifers, cellulose, hemicelluloses, lignin, ultra-structure, wood, pulping, paper, raw material.

Summary

The review deals mainly with conifers. Short outlines are given of the morphology and the constitution and molecular features of the main polymer constituents, cellulose, hemicelluloses and lignin. The roles of these polymers in the ultrastructure of the wood fibre wall is interpreted. The behaviour and theoretical understanding of wood as a material is exemplified. The conversion of wood to paper are discussed at some length. Finally the present status and the future potential of lignocellulose as raw material are analysed.