Studi tiga jenis kayu marga syzygium di FMIPA Universitas Indonesia kampus Depok sebagai kayu substitusi bahan baku kertas berdasarkan dimensi serat dan nilai turunan dimensi serat = Wood fiber of three species from syzygium genus as the substitute wood for paper making raw material based on fiber dimension and fiber dimension derivate value

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Abstrak

Telah dilakukan penelitian terhadap kayu Syzygium aqueum Syzygium cumini dan Syzygium jambos di FMIPA UI kampus Depok Penelitian ini bertujuan untuk mengetahui kualitas serat kayu Syzigium tersebut sebagai kayu substitusi bahan baku kertas Kualitas serat kayu diketahui dengan cara mengukur dimensi serat dan menghitung nilai turunan dimensi serat Preparat maserasi kayu dibuat untuk pengukuran dimensi serat Kemudian nilai turunan dimensi serat dihitung berdasarkan data pengukuran dimensi serat Hasil pengukuran dimensi serat dan penghitungan nilai turunan dimensi serat dibandingkan dengan tabel standar kriteria Hasil yang didapatkan dari penelitian ini adalah ketiga serat kayu Syzygium tersebut masuk ke dalam kelas III Karakteristik serat kelas III yaitu serat pendek dan dinding serat relatif tebal
.....Research about wood fiber of Syzygium aqueum Syzygium cumini and Syzygium jambos in FMIPA UI Depok had been conducted This research is aimed for knowing the wood fiber quality of those three Syzygium wood as substitute wood for paper pulp making raw material Wood fiber quality can be analyzed by measuring fiber dimensions and calculate the fiber dimensions derived values Wood maseration slide preparations were made for measuring fiber dimensions Fiber dimension derivate value were calculated based on the measuring data of fiber dimensions The resulting data of fiber dimensions and their derived values were compared with the table of criteria standard The result shows that those three Syzygium wood are grouped in class III the fibers are short and have thick fiber wall