



Characterizing the Interfiber Bonding of Paper Pulps: Tensile Behavior of Some Mathematical Models of Paper Networks (Classic Reprint) (Paperback)

By Jack C Smith

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Characterizing the Interfiber Bonding of Paper Pulps: Tensile Behavior of Some Mathematical Models of Paper Networks The behavior of a thin web-like paper network during elongation has been approximately simulated by two simple mathematical models. One of these is a parallel-spring model consisting of a series of segments formed by connecting springs in parallel between two rigid bars. The other is a square network model consisting of a network with square meshes formed from springs of equal length. The square-network model provides the better simulation of an actual network, but a complicated computer program is required to calculate behaviors. The parallel-spring model is mathematically simple, and can be used to suggest general behaviors which can be verified by calculations for other more suitable models. In these studies emphasis is placed on the effect of breakage of a central bond when the model is stretched. The resulting distorted mesh configurations, the drop in tensile force, and the energy lost by the network are calculated. An attempt is made to interpret the behavior of an actual paper network in the light of these...



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