





Cellulose Wood Chemistry Crystalline versus Amorphous*			
Cel <u>lulose</u>	Crystallinity (%)		
Cotton Linters	71.3		
Bleached Kraft (spruce)	68		
Bleached Sulfite (spruce)	67.8		
Bleached Kraft (birch)	65.1		
Bleached Kraft (bamboo)	59.9		
Rayon	45		
* See Sjostrom pg 13 for a drawing PSE 406 - Lecture 6			











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Wood Chemistry	Bond Str	ength Co	mparison	
	Linkage	Compound	Energy kJ/mol	
	v.d. Waals	H <sub>2</sub> O	0.155	
	0-Н <sup></sup> О	H <sub>2</sub> O	15	
	O-HO	Cell-OH	28	
	O-H		460	
	C-C		347	
Notes	s	1	I	
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