



Primary Wood Processing: Principles and Practice

By Walker, John C.F.

Springer, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.-1. The structure of wood: form and function. 1.1 Introduction. 1.2 The microscopic structure of softwoods. 1.3 The microscopic structure of hardwoods. 1.4 The microscopic structure of bark.-2. Basic wood chemistry and cell wall ultrastructure. 2.1 Introduction. 2.2 The structure of cellulose. 2.3 The cellulose microfibril and cellulose biosynthesis. 2.4 The structure of hemicelluloses. 2.5 The structure of lignin. 2.6 The cell wall structure of a softwood tracheid. 2.7 Distribution of cell constituents. 2.8 Wood extractives.-3. Water in wood. 3.1 Introduction. 3.2 Some definitions. 3.3 The density of wood tissue. 3.4 The amount of air in oven-dry wood. 3.5 The fibre saturation point. 3.6 Hysteresis and adsorbed water in the cell wall. 3.7 Measuring the fibre saturation point. 3.8 Theories of adsorption. 3.9 Distribution of water within the cell wall. 3.10 Where is the adsorbed water within the cell wall? 3.11 Characteristics of adsorbed water in the cell wall.-4. Dimensional instability in timber. 4.1 Introduction. 4.2 Shrinkage and swelling of wood. 4.3 Extractive bulking. 4.4 Anisotropic shrinkage and swelling of wood. 4.5 Theories for anisotropic shrinkage. 4.6 Movement and responsiveness of lumber. 4.7 Coatings....



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