

The Centennial Edition of the classic Wood Handbook

- Chapter 1** *Wood as a Sustainable Building Material*
- Chapter 2** *Characteristics and Availability of Commercially Important Woods*
- Chapter 3** *Structure and Function of Wood*
- Chapter 4** *Moisture Relations and Physical Properties of Wood*
- Chapter 5** *Mechanical Properties of Wood*
- Chapter 6** *Commercial Lumber, Round Timbers, and Ties*
- Chapter 7** *Stress Grades and Design Properties for Lumber, Round Timber, and Ties*
- Chapter 8** *Fastenings*
- Chapter 9** *Structural Analysis Equations*
- Chapter 10** *Adhesives with Wood Materials Bond Formation and Performance*
- Chapter 11** *Wood-Based Composite Materials Panel Products, Glued-Laminated Timber, Structural Composite Lumber, and Wood–Nonwood Composite Materials*
- Chapter 12** *Mechanical Properties of Wood-Based Composite Materials*
- Chapter 13** *Drying and Control of Moisture Content and Dimensional Changes*
- Chapter 14** *Biodeterioration of Wood*
- Chapter 15** *Wood Preservation*
- Chapter 16** *Finishing of Wood*
- Chapter 17** *Use of Wood in Buildings and Bridges*
- Chapter 18** *Fire Safety of Wood Construction*
- Chapter 19** *Specialty Treatments*
- Chapter 20** *Heat Sterilization of Wood*



This edition of the Wood Handbook, which marks the Forest Products Laboratory's first 100 years of service to the public, provides engineers, architects, and others who use wood with an updated source of information on various properties of wood, its relationship with moisture, and characteristics of various wood-based materials. Continuing research holds promise for wider and more efficient utilization of wood in an increasing number of applications. The Forest Products Laboratory campus features more than 10 buildings on 22 acres, including the main building, constructed in 1935 (top); the new Centennial Research Facility, dedicated in 2010 (middle); and the Research Demonstration House, completed in 2002 (bottom).

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