

# TECHLINE

## Properties and Use of Wood, Composites, and Fiber Products

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### Clark C. Heritage Memorial Series on Structural Uses of Wood

The legacy of a wood products pioneer is helping engineers and architects better understand the structural uses of wood. Clark C. Heritage was an early leader in pulp and paper research at the Forest Products Laboratory (FPL). He also served for many years as the director of wood products for the Weyerhaeuser Company. Heritage died in 1972 and willed a portion of his estate to the FPL for the purpose of advancing the science of wood utilization. His bequest underwrote a four-volume series of teaching modules called the Clark C. Heritage Memorial Series on Wood. The FPL produced the modules in cooperation with the University of Wisconsin-Extension, Madison.



*Clark C. Heritage, an early leader in pulp and paper research at FPL and later director of wood products for Weyerhaeuser. His legacy funded development of the Heritage Series. (Photo courtesy of Weyerhaeuser Company.)*

The development process incorporated a unique “peer review” system and integrated the resources of the Educational Modules for Materials Science and Engineering (EMMSE) project (renamed the Materials Education Council in 1984) established at Pennsylvania State University. In the EMMSE approach, educational modules that include lecture material and self-tests are prepared by scientists, professors, and consulting engineers. These modules are then intensively reviewed by a workshop of carefully selected educators who serve as “students,” first reading the modules as homework, then listening to the text presentation in a classroom setting. Subsequent revisions incorporate the educators’ changes and comments. This interaction helps ensure that the modules are both technically accurate and educationally appealing.

The Heritage Series consists of four volumes:

- Volume I, “Wood: Its Structure and Properties,” 1981, discusses in nine modules basic insights to the structure, treatment, and properties of wood.
- Volume II, “Wood as a Structural Material,” 1982, describes both old and new wood products and their uses as structural materials in eight modules.
- Volume III, “Adhesive Bonding of Wood and Other Structural Materials,” 1983, covers the rapidly expanding application of adhesive-bonded wood products and structures through nine modules.
- Volume IV, “Wood: Engineering Design Concepts,” 1987, comprises eight modules that provide information and data on design of major structural members.

This series can help engineering and materials science professors prepare state-of-the-art courses on wood’s utility in construction and design. These volumes will serve as an invaluable source of knowledge for tomorrow’s engineers and designers and better equip them to make improved use of wood for both traditional and innovative structures.

*To order individual volumes or the entire set, contact  
Materials Education Council  
136 Materials Research Laboratory  
Pennsylvania State University  
University Park, PA 16802  
Phone: (814) 235-5353; Fax: (814) 865-5335*

*Volumes 1 through III are \$31 each; Volume IV is \$41. The entire four-volume set is \$126. (Shipping per set is \$4.50 in the United States, \$7.00 overseas. If shipped individually, cost is \$3 per item.)*



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