



Nondestructive Characterization and Imaging of Wood (Springer Series in Wood Science)

By Voichita Bucur

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Nondestructive Characterization and Imaging of Wood (Springer Series in Wood Science) By Voichita Bucur

This book on the Nondestructive Characterization and Imaging of Wood by Professor Voichita Bucur is truly the most outstanding reference on the subject ever written. Since the origins of mankind, wood has played a key role in the history of humans and other living creatures, ranging from provision of life from trees giving air, heat, light, and food to nourish their bodies to structures to protect them from the elements. Wood has also played a key role in one of the world's primary religions. Nondestructive diagnostics methods have long found application in medical practice for examination of the human body in order to detect life threatening abnormalities and permit diagnosis to extend life. Nondestructive testing has been used for many years to insure the safety of machinery, aircraft, railroads, tunnels, buildings and many other structures. Therefore, it is timely for a treatise, like the present one, to be written describing how wood can be characterized without employing destructive test methods. Since wood is so valuable to mankind, it is important to know the latest methods to nondestructively characterize wood for all practical applications.

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Editorial Review

Review

From the reviews:

"A comprehensive account is given of the principles, practice and achievements of imaging the internal structure of wood and wood-based composites. Techniques for non-destructive evaluation which are discussed are ionizing radiation computed tomography, thermal imaging, microwave imaging, ultrasonic imaging, nuclear magnetic resonance, and neutron imaging. There is an extensive bibliography and a subject index. The book will be of particular interest to those concerned with wood as an engineering material, as well as research scientists and students of wood structure." (CAB Abstracts, July, 2008)

From the Back Cover

The subject of nondestructive evaluation of wood properties has its origin in the necessity to solve practical problems. This book comprehensively reviews numerous aspects of imaging and nondestructive characterization of wood products ranging from trees to the most complex wood-based composite. The text is of particular interest to those who are concerned with the study of wood as an engineering material for fundamental research or practical application. It presents the imaging of the internal structure of wood with methods based on the propagation of electromagnetic waves, elastic waves and heat, and imaging with nuclear particle radiation based methods.

Users Review

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