



United States
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Agriculture

Forest Service

Forest
Products
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General
Technical
Report
FPL - GTR - 190

USDA

Wood Handbook

Wood as an Engineering Material



Centennial Edition

Wood Handbook

SJ Ball



Wood Handbook:

Wood Handbook Forest Products Laboratory (U.S.),1987 **Wood Handbook** ,1999 Wood Handbook ,1999 This handbook is intended as an aid to more efficient use of wood as a construction material It provides engineers architects and others with a source of information on the physical and mechanical properties of wood and how these properties are affected by variations in wood ...**Wood Handbook** Forest Products Laboratory (U.S.),1940 *Wood Handbook* United States Government Printing Office,1999-05-01 **Wood Handbook** Forest Products Laboratory (U.S.),1955 **Wood Handbook** Forest Products Laboratory (U.S.),1974 Summarizes information on wood as an engineering material Properties of wood and wood base products of particular concern to the architect and engineer are presented along with discussions of designing with wood and some pertinent uses of wood Page ii **Wood Handbook** ,1955 **Wood Handbook** Forest Products Laboratory (U.S.),1974 **Wood Handbook** Forest Products Laboratory (U.S.),1974 **Centennial Edition** Forest Products Laboratory,2019-11-21 We are proud to present this edition of the Wood Handbook Wood as an Engineering Material prepared and updated to include fascinating new developments in the field of wood utilization and released as part of the celebration of the Forest Products Laboratory s first 100 years of service to the public Efficient use of our nation s timber is of critical importance This handbook is intended to serve as a primary reference on the use of wood in a variety of applications from general construction to use of wood for decorative purposes It provides engineers architects and others who use wood with a source of information on the 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 This handbook was prepared by the Forest Products Laboratory FPL a research unit within the USDA Forest Service The FPL first established in 1910 in Madison Wisconsin was the first institution in the world to conduct general research on wood and its utilization The information that resulted from many of its scientific investigations of wood and wood products over the past century is the primary basis for this handbook **Wood Handbook** ,1987 Characteristics and availability of woods Structure of wood Physical properties of wood Mechanical properties of wood Commercial lumber Lumber stress grades and allowable properties Fastenings Structural analysis formulas Bonding wood and wood products Glue structural members Plywood Structural sandwich construction Bent wood members Control of moisture content and dimensional changes Fire safety in wood construction Finishing of wood Protection from organisms that degrade wood Wood preservation Roul timbers and ties Moisture movement and thermal insulation in light frame structures Insulation board harboard medium density fiberboard paperboards Wood base particle panel materials Modified woods and paper base laminates **Wood Handbook** ,1975 **Wood Handbook** ,1955 **Wood Handbook** Forest Products Laboratory,2000 Forests distinct from all their other services and benefits supply a basic raw material wood which from the earliest times has furnished mankind with necessities of existence and with comforts and conveniences beyond number One

major use has always been in structures particularly in housing But despite wood s long service in structures it has not always been used efficiently In these days when the Nation is trying to utilize its resources more fully better and more efficient use of the timber crop is vital As an aid to more efficient use of wood as a material of construction this handbook was prepared by the Forest Products Laboratory It was the first institution in the world to conduct general research on wood and its utilization The vast accumulation of information that has resulted from its engineering and allied investigations of wood and wood products over seven decades along with knowledge of everyday construction practices and problems is the chief basis for this handbook Individual chapters describe not only the wood itself but wood based products and the principles of how wood is dried fastened finished and preserved from degradation in today s world Each chapter is climaxed with a bibliography of allied information A glossary of terms is presented at the end of this handbook

**Wood Handbook:
Basic Information on Wood as a Material of Construction with the Data for Its Ude in Design and Specification**

... United States Product Laboratory, Madison, Wis, Ronald Floyd Luxford, George William Trayer, 1835 *Wood Handbook*
Stati Uniti d'America. Forest products laboratory, 1974 *Wood Handbook* Stati Uniti d'America. *Forest *service, 1974

Wood Handbook Estados Unidos Forest Products Laboratory, United States. Department of Agriculture. Forest Products Laboratory, 1974 **Wood Handbook** Forest Products Laboratory (Estats Units d'Amèrica), 2010

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