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Timber Construction Manual

By AITC

Wiley, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.General Nomenclature.1. Timber Construction1.1 Introduction.1.2 Economy.1.3 Permanence.1.4 Seasoning, Handling, Storage, and Assembly.1.5 Fire Safety.2. Physical Properties of Wood.2.1 General.2.2 Specific Gravity and Specific Weight of Commercial Lumber Species.2.3 Dimensional Changes Due to Moisture and Temperature.2.4 Thermal Insulating Properties.2.5 Wood in Chemical Environments.2.6 Acoustical Properties.2.7 Electrical Properties.2.8 Coefficient of Friction.3. Timber Design.3.1 General.3.2 Loads and Forces. 3.3 Design Values.3.4 Adjustment Factors.3.5 Serviceability and Deflection.3.6 Camber.3.7 Ponding.4. Structural Members.4.1 General.4.2 Bending Members.4.3 Torsion.4.4 Axially Loaded Members.4.5. General Equations.4.6 Tapered Straight Beams.4.7 Curved Members.4.8 Arches.5. Timber Connections and Fasteners.5.1 General.5.2 Adjustment Factors.5.2 Net and Effective Section.5.3 Angle of Load to Grain.5.5 Load at Angle to Fastener Axis.5.6 Effect of Treatment.5.7 Uplift and Anchorage Loads.5.8 Fastener Row and Group Tear Out.5.9 Fasteners Installed in End Grain.5.10 Bearing.5.11 Bolts and Lag Screws Loaded Laterally.5.12 Fasteners Loaded in Withdrawal.5.13 Fasteners Loaded Laterally and in Withdrawal.5.14 Wood Screws.5.15 Nails and Spikes.5.16 Drift Pins.5.17 Staples.5.18 Light Metal Framing Devices.5.19 Metal Truss Plate Connections.5.20 Split Ring and Shear Plate Connectors.5.21 Moment Splices.5.22 Timber Rivets.5.23 Wood Joinery.5.24 Detailing.6. Structural Systems.6.1 General.6.2 Post and Beam.6.2 Pole Construction, Post-Frame Construction, and Timber Piles.6.3 Sheathing and Decking.6.4...



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