



Timber Design for the Civil and Structural PE Exams, 7th Ed

Robert Kim MSCE PE, Jai Kim PhD PE

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Timber Design for the Civil and Structural PE Exams is a comprehensive study guide that uses the inductive teaching method to help readers apply the ASD/LRFD national Design Specifications to realistic problem scenarios, and understand the design theories the solving methods are based on. Design examples and scenario-based practice problems will help you apply what you learn, whether you are preparing for the Civil PE or Structural Engineering (SE) exams, are a student in a timber design course, or are a practicing engineer.


Prepare to Pass the Civil PE and SE Exams

- Provides an overview of timber-related codes and standards, including how to use NDS 2005 specifications
- Lists the most-used NDS equations, figures, and tables for easy access
- Cross-references solution steps to NDS sections
- Solves problems using both Load Resistance Factor Design (LRFD) and Allowable Stress Design (ASD) timber design methods
- Features 40 design examples and 6 scenario-based practice problems with step-by-step solutions

Topics Covered

- Structural and Physical Properties of Wood
- Mechanical Properties of Lumber
- Lumber Size Categories and Allowable Design Stress
- Beam Design: Sawn Lumber of Wood and Glued Laminated Timber
- Axial Members
- Combined Bending and Axial Loading
- Mechanical Connections
- Nails, Spikes, and Bolts
- Lag Screws and Wood Screws
- Split Rings and Shear Plates
- Plywood and Nonplywood Structural Panels

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