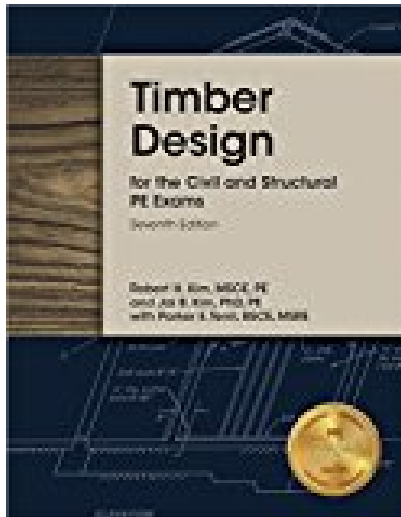


Timber Design for the Civil and Structural PE Exams 7th Ed



BOOK DETAILS

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BOOK SYNOPSIS

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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