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1. For the design of temporary structures, (defined for this chapter as a structure that will be in place 180 days or less) load combinations in Equations 16-8 and 16-9 can be multiplied by a factor of 0.75. 2. For the design of temporary structures, the Equations 16-10, 16-11 and 16-12 can be multiplied by a factor of 0.67.

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design of wood structures using both Allowable Stress Design (ASD) and Load and Resistance Factor Design (LRFD). It contains design examples and complete solutions calculated using ASD and LRFD. Solutions have been developed based on the 2015 and 2018 National Design Specification® (NDS®) for Wood Construction,

The leading wood design reference—thoroughly revised with the latest codes and data Fully updated to cover the latest techniques and standards, the eighth edition of this comprehensive resource leads you through the complete design of a wood structure following the same sequence used in the actual design/construction process. Detailed equations, clear illustrations, and practical design examples are

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featured throughout the text. This up-to-date edition conforms to both the 2018 International Building Code (IBC) and the 2018 National Design Specification for Wood Construction (NDS). Design of Wood Structures-ASD/LRFD, Eighth Edition, covers:

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- Beam design and wood structural panels
- Axial forces and combined loading
- Diaphragms and shearwalls
- Wood and nailed connections
- Bolts, lag bolts, and other connectors
- Connection details and hardware
- Diaphragm-to-shearwall anchorage
- Requirements for seismically irregular structures
- Residential buildings with wood light frames

No architect's education would be complete without a basic understanding of how structures respond to the action of forces and how these forces affect the performance of various building material (wood, steel, concrete, etc.). In continuous publication for over 60 years, this standard guide to structural design with wood has now been updated to include current design practices, standards, and consideration of new wood products. Now covering the LRFD method of structural design in addition to the ASD method, expanded treatment of wood products besides sawn lumber, and with more examples and exercise problems, this edition stands as a valuable resource that no architect or builder should be without. The Parker/Ambrose Series of Simplified Design Guides has been providing students with simple, concise solutions to common structural and environmental design problems for more than seven decades.

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\* The best-selling text and reference on wood structure design \* Incorporates the latest National Design Specifications, the 2003 International Building Code and the latest information on wind and seismic loads

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Addresses the new 2012 National Design Specification for Wood Construction (NDS) Contains dual-format Allowable Stress Design/Load and Resistance Factor Design (ASD/LRFD) specifications, equations, and problems Includes ASCE/SEI 7-10 load provisions DESIGN OF WOOD STRUCTURES--ASD/LRFD, SEVENTH EDITION, COVERS: Wood buildings and design criteria Design loads Behavior of structures under loads and forces Properties of wood and lumber grades Structural glued laminated timber Beam design Axial forces and combined loading Wood structural panels Diaphragms Shearwalls Wood connections Nailed connections Bolts, lag bolts, and other connectors Connection details and hardware Diaphragm-to-shearwall anchorage Advanced topics in lateral force design

This fourth edition of the text incorporates changes and additions to the major codes concerning the use of wood in building design. The focus of the new sections of the text will be on Allowable Stress Design (ASD).

This text provides a concise and practical guide to timber design, using both the Allowable Stress Design and the Load and Resistance Factor Design methods. It suits students in civil, structural, and construction engineering programs as well as engineering technology and architecture programs, and also serves as a valuable resource for the practicing engineer. The examples based on real-world design

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problems reflect a holistic view of the design process that better equip the reader for timber design in practice. This new edition now includes the LRFD method with some design examples using LRFD for joists, girders and axially load members. is based on the 2015 NDS and 2015 IBC model code. includes a more in-depth discussion of framing and framing systems commonly used in practice, such as, metal plate connected trusses, rafter and collar tie framing, and pre-engineered framing. includes sample drawings, drawing notes and specifications that might typically be used in practice. includes updated floor joist span charts that are more practical and are easy to use. includes a chapter on practical considerations covering topics like flitch beams, wood poles used for footings, reinforcement of existing structures, and historical data on wood properties. includes a section on long span and high rise wood structures includes an enhanced student design project

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