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## **STRUCTURAL Wood Design ASD/LRFD**

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This document is intended to aid instruction in structural 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

**NDS Structural Wood Design Examples 2015/2018 Edition** designing hybrid structures involving wood and other materials; the designer now can use one set of loads for LRFD, instead of switching load sets part way through the structure as required by a structural material change that might have an LRFD or ASD basis.

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Fifth Edition of Design of Wood Structures -- ASD offers an unmatched level of excellence. Donald E. Breyer, P.E., is a Professor Emeritus in the Department of Engineering Technology at California State Polytechnic University, Pomona, California.

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The typical structural elements in a wood-framed building system are described below. Rafters (Figure 1.3): These are usually sloped sawn-dimension lumber roof beams spaced at fairly close intervals (e.g., 12, 16, or 24 in.) and carry lighter loads than those carried by the roof trusses, beams, or girders.

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Recently, the wood industry and design community completed the development of a load and resistance factor design (LRFD) specification for wood construction. The NDS is based on what is termed allowable stress design (ASD), wherein allowable stresses of a material are compared to calculated working stresses resulting from service loads.

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