Research profile

Bert Snijder is a Full Professor and holds the Chair of Structural Design (Steel Structures) at Eindhoven University of Technology (TU/e). His key areas of expertise include civil and structural engineering, mechanics of materials, structural and stress analysis, finite element analysis and structural design in relation to architecture. His research interests concern strength, stability and fatigue of steel structures. He is also interested in structural systems, connections, cold-formed sections, composite and hybrid structures and high-strength steel applications. The application domain concerns buildings and bridges.

Research on strength, stability and fatigue contributes to a better understanding of structural behavior resulting in new and better design rules. Recently, a research project was carried out to investigate the residual stress levels in S460 Jumbo sections for the American high-rise building market and to determine the appropriate buckling curves to be used for these sections. Structural systems with steel concern pre-stressed steel structures, stay-cable structures and stability structures in high-rise steel buildings. Connection research focuses on the mechanical behavior of bolted and welded connections. The research on cold-formed sections contributes to a broader application of cold-formed thin-walled plate products and sections. In composite and hybrid structures, steel is combined with concrete, timber, glass or FRP such that all materials are optimally used. For high-strength steels, it has to be investigated whether current design rules are still appropriate or new design rules have to be developed.

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Revision of EN 1993-1-1 – Design rules for structural analysis, cross-sectional resistance and member buckling
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