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## 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.

## Onderzoeksoutput

### **The cross-sectional resistance of square and rectangular hollow steel sections loaded by bending moment and shear force**

Haan, T. M., Leonetti, D., Hofmeyer, H. & Snijder, H. H., dec. 2023, In: Journal of Constructional Steel Research. 211, 16 blz., 108178.

### **Probabilistic design life selection procedure for a steel bridge**

Svechnikov, E., Snijder, H. H., Maljaars, J., de Boon, J. & Drenth, E., 1 sep. 2023, In: CE/Papers. 6, 3-4, blz. 477-482 6 blz.

### **Probability of detection curve for the automatic visual inspection of steel bridges**

Kompanets, A., Leonetti, D., Duits, R., Maljaars, J. & Snijder, H. H., 1 sep. 2023, In: CE/Papers. 6, 3-4, blz. 814-824 11 blz.

### **Fatigue improvement of rib-to-deck welded joints using adhesively bonded steel patches - LEFM-based parametric study**

Wang, X., Leonetti, D., Miao, C. & Snijder, H. H., sep. 2023, In: CE/Papers. 6, 3-4, blz. 2468-2474 7 blz.

### **Rotating bending fatigue behaviour and quasi-static tensile properties of Wire Arc Additively Manufactured 308L stainless steel**

Leonetti, D., de Munnik, M., Kassing, L., Khan, D., Moulin, J-F. & Snijder, H. H., sep. 2023, In: CE/Papers. 6, 3-4, blz. 732-738 7 blz.

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

Bureau, A., Snijder, H. H., Knobloch, M., Kuhlmann, U., Gardner, L., Taras, A. & Simoes da Silva, L., 4 nov. 2022, In: Steel Construction. 15, 4, blz. 202-212 11 blz.

### **The Direct Strength Method for first generation trapezoidal steel sheeting under Interior One Flange and Interior Two Flange web crippling**

Hofmeyer, H., Geers, S. W. A., Snijder, H. H. & Schafer, B. W., nov. 2022, In: Thin-Walled Structures. 180, 17 blz., 109795.

**Safety assessment for capacity design of bolted steel connections in tension**

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**Quantification of seismic performance factors of self-centered y-shaped braced frames**

Shahiditabar, A., Moharrami, H. & Snijder, H. H., jul. 2022, In: Journal of Constructional Steel Research. 194, 14 blz., 107304.

**Systematic derivation of safety factors for the fatigue design of steel bridges**

Maljaars, J., Leonetti, D., Hashemi, S. & Snijder, H. H., jul. 2022, In: Structural Safety. 97, 16 blz., 102229.

**An experimental investigation on the net cross-section failure of damaged plates containing holes**

Baarsen, H., van Maanen, J-W., Leonetti, D. & Snijder, H. H., 2022, In: Procedia Structural Integrity. 41, blz. 183-191 9 blz.

**Revision of EN 1993-1-1 – Design rules for member buckling**

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**Stabiliteit – Berekenen van de stabiliteit van staven in staalconstructies belast op druk, op buiging en op combinaties van druk en buiging volgens Eurocode 3**

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**The direct strength method for combined bending and web crippling of second-generation trapezoidal steel sheeting**

Willems, D. W. C., Hofmeyer, H., Snijder, H. H. & Schafer, B. W., 1 okt. 2021, In: Thin-Walled Structures. 167, 20 blz., 108149.

**Lateral torsional buckling of an I-shaped hoisting spreader beam**

Snijder, H. H., Ploegmakers, D. G., Dekker, R. W. A. & Maljaars, J., 1 sep. 2021, In: CE/Papers. 4, 2-4, blz. 2158-2165

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Leonetti, D., Maljaars, J. & Snijder, H. H., sep. 2021, *IABSE CONGRESS GHENT 2021: Structural Engineering for Future Societal Needs*. Snijder, H. H., De Pauw, B., van Alphen, S. & Mingeot, P. (redacties). Zurich: International Association for Bridge and Structural Engineering, blz. 1546-1554 8 blz.

**Future societal needs**

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**Estimation of the Structural Reliability for Fatigue of Welded Bridge Details Using Advanced Resistance Models**

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Leonetti, D., Maljaars, J. & Snijder, H. H., 1 feb. 2021, In: Engineering Fracture Mechanics. 242, 24 blz., 107487.

**Framework for investigating the effect of different design lives on the design of bridges**

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**Explicit and interaction direct strength methods for combined web crippling and bending moment failure of first-generation trapezoidal steel sheeting**

Zakhimi, H., Hofmeyer, H., Snijder, H. H. & Mahendran, M., 1 dec. 2020, In: *Thin-Walled Structures*. 157, 16 blz., 106927.

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Knobloch, M., Bureau, A., Kuhlmann, U., Simoes da Silva, L., Snijder, H. H., Taras, A., Bours, A-L. & Jörg, F., 1 aug. 2020, In: *Steel Construction*. 13, 3, blz. 208-222 15 blz.

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**Structural member stability verification in the new Part 1-1 of the second generation of Eurocode 3: Part 1: Evolution of Eurocodes, background to partial factors, cross-section classification and structural analysis**

Knobloch, M., Bureau, A., Kuhlmann, U., Simoes da Silva, L., Snijder, H. H., Taras, A., Bours, A-L. & Jörg, F., 1 mei 2020, In: *Steel Construction*. 13, 2, blz. 98-113 16 blz.

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#### **Reliability-based fatigue life estimation of shear riveted connections considering dependency of rivet hole failures**

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#### **Uncertainty analysis of constant amplitude fatigue test data employing the six parameters random fatigue limit model**

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#### **Lateral torsional buckling design imperfections for use in non-linear FEA**

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#### **Bending-shear interaction of steel I-shaped cross-sections: statistical evaluation**

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#### **Net cross-section failure of steel plates at bolt holes: numerical work and statistical assessment of design rules**

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#### **Strength and stability of traditional timber frames**

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#### **Numerical investigation into strong axis bending-shear interaction in rolled I-shaped steel sections**

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**Buckling curves for heavy wide flange QST columns based on statistical evaluation**

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**Mechanical properties of roller bent wide flange sections - part 1: Experimental investigation**

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