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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.

Research outputs

Probabilistic fatigue resistance model for steel welded details under variable amplitude loading : Inference and uncertainty estimation

Leonetti, D., Snijder, H. H. & Maljaars, J., Jun 2020, In : International Journal of Fatigue. 135, 18 p., 105515.

Fatigue life prediction of hot-riveted shear connections using system reliability

Leonetti, D., Maljaars, J. & Snijder, H. H., 1 May 2019, In : Engineering Structures. 186, p. 471-483 13 p.

Proceedings of the Belgian-Dutch IABSE Young Engineers Colloquium 2019: YEC2019

Snijder, H. H. (ed.), De Pauw, B. (ed.) & Leonetti, D. (ed.), 15 Mar 2019, Eindhoven: Technische Universiteit Eindhoven. 106 p.

Added value of regular in-service visual inspection to the fatigue reliability of structural details in steel bridges

Hashemi, S., Maljaars, J. & Snijder, B., 2019, *5th International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures – SMAR 2019: Proceedings*.

Evaluation of clamping force in hot-driven rivets of the Botlekbrug

Leonetti, D., Maljaars, J. & Snijder, B., 2019, *Proceedings of the Belgian-Dutch IABSE Young Engineers Colloquium 2019, YEC 2019*. De Pauw, B., Leonetti, D., Snijder, H. H. & De Pauw, B. (eds.). Belgian and Dutch National Groups of IABSE, p. 76-77 2 p.

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Hashemi, B., Maljaars, J. & Snijder, B., 2019, *Proceedings of the Belgian-Dutch IABSE Young Engineers Colloquium 2019, YEC 2019*. De Pauw, B., Leonetti, D., Snijder, H. H. & De Pauw, B. (eds.). Belgian and Dutch National Groups of IABSE, p. 36-37 2 p.

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Simplified constraint-modified failure assessment procedure for structural components containing defects

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Stability interaction effects in 3D steel frames: a case study

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

Leonetti, D., Maljaars, J. & Snijder, H. H., 25 May 2018, In : MATEC Web of Conferences. 165, 9 p., 10008.

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

Leonetti, D., Maljaars, J. & Snijder, H. H., 25 May 2018, In : MATEC Web of Conferences. 165, 8 p., 10016.

Effective second moment of area of uniform built-up members

Snijder, H. H., Apr 2018, In : Stahlbau. 87, 4, p. 323-331 9 p.

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

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27 Nov 2017

Journal of Structural Engineering (Journal)

Bert Snijder (Peer reviewer)
3 Nov 2017

Journal of Constructional Steel Research (Journal)

Bert Snijder (Peer reviewer)
2 Sep 2017

Journal of Structural Engineering (Journal)

Bert Snijder (Peer reviewer)
2 Sep 2017

Engineering Structures (Journal)

Bert Snijder (Peer reviewer)
30 Jun 2017

Journal of Constructional Steel Research (Journal)

Bert Snijder (Peer reviewer)
9 May 2017

Engineering Structures (Journal)

Bert Snijder (Peer reviewer)
13 Mar 2017

Engineering Structures (Journal)

Bert Snijder (Peer reviewer)
10 Oct 2016

Journal of Constructional Steel Research (Journal)

Bert Snijder (Peer reviewer)
8 Oct 2016

Engineering Structures (Journal)

Bert Snijder (Peer reviewer)
12 Jun 2016

Journal of Structural Engineering (Journal)

Bert Snijder (Peer reviewer)
12 Jun 2016

Steel Construction - Design and Research (Journal)

Bert Snijder (Editorial board member)
2016 → ...

TU/e Academic Awards 2014 (External organisation)

Bert Snijder (Member)
2014

IABSE International Association for Bridge and Structural Engineering (Publisher)

Bert Snijder (Editorial board member)
1 Nov 2013 → 1 Nov 2014

Heron (Journal)

Bert Snijder (Editorial board member)
2011

Journal of Structural Engineering (Journal)

Bert Snijder (Editorial board member)
2011

Steel Construction - Design and Research (Journal)

Bert Snijder (Editorial board member)
2011

Heron (Journal)

Bert Snijder (Editorial board member)
2008

Journal of Constructional Steel Research (Journal)

Bert Snijder (Editorial board member)
2008

Heron (Journal)

Bert Snijder (Editorial board member)
2007

Heron (Journal)

Bert Snijder (Editorial board member)
2005

Heron (Journal)

Bert Snijder (Editorial board member)
2004

Bouwen met Staal (Journal)

Bert Snijder (Editorial board member)
2002 → 2004

Heron (Journal)

Bert Snijder (Editorial board member)
2002

Structural Engineering International (Journal)

Bert Snijder (Editorial board member)
2002 → 2008

SG-Techniekdag 1998

Bert Snijder (Keynote speaker)
1998