

Structural basics

Steel Design 1

CONTENT

- 1 Structural safety
- 2 Actions and deformations
- 3 Modelling
- 4 Analysis
- 5 Analysis methods
- 6 Assessment by code checking
- 7 Resistance of cross-sections

H.H. Snijder and H.M.G.M. Steenbergen, *Structural basics. Analysis and design of steel structures for buildings according to Eurocode 0, 1 and 3* (Steel Design 1), published by Bouwen met Staal, Zoetermeer 2019, ISBN 979-90-72830-98-2, format 23x25 cm, 272 p.



Fire

Steel Design 2

CONTENT

- 1 Fire safety
- 2 Calculation of the fire resistance
- 3 Fire safety engineering
- 4 Design tables

A.F. Hamerlinck, *Fire safety and fire resistant design of steel structures for buildings according to Eurocode 3* (Steel Design 2), published by Bouwen met Staal, Zoetermeer 2021, ISBN 979-90-75146-04-2, format 23x25 cm, 164 p.



Connections

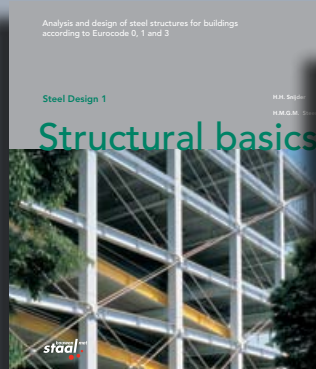
Steel Design 3

CONTENT

- 1 Connections in steel structures
- 2 Bolts in clearance holes
- 3 Slip-resistant connections, rivets and pins
- 4 Welds
- 5 Design and detailing of connections

J.W.B. Stark, *Connections. Behaviour of connections in steel structures and design of mechanical fasteners and welds according to Eurocode 3* (Steel Design 3), published by Bouwen met Staal, Zoetermeer 2021, ISBN 978-90-75146-05-9, format 23x25 cm, 206 p.

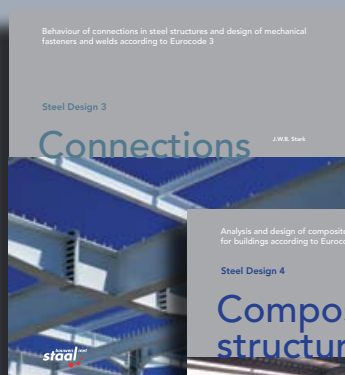
Steel Design series



Steel Design 1



Steel Design 2



Steel Design 3



Steel Design 4



Steel Design 5

Education and high quality textbooks are crucial to developing an interest in steel structures and their benefits for clients, architects and designers. However, despite the need to inspire the industry's next generation, many textbooks on steel structures are commissioned on a low budget, resulting in material that lacks imagination and tends to feature, at best, moderate illustrations. These textbooks are usually intended for high school and university level students, as well as designers who are not yet specialised in steel and steel construction. Therefore, it is vital that lecturers have access to up-to-date books that offer clear and concise explanations, while inspiring readers about the possibilities of steel through beautiful graphics and images. Steel Design is a set of English textbooks translated from the original Dutch that are based on the EN version of Eurocode with differences in nationally defined parameters included in an annex. These textbooks are intended for high-school and university level students. The content is applicable to designers who are not specialised in steel and steel construction.

See <https://publicaties.bouwenmetstaal.nl/?p=all> for more detailed information on *Structural basics*, *Fire*, *Connections* and other textbooks of Bouwen met Staal.

Steel Design series

The textbooks in the Steel Design series are based on the (English) EN version of the Eurocodes using default and/or recommended values. Where a country can make a national choice – or when non-contradictory complementary information may be used – this is indicated by a symbol (black square). Separate annexes contain (for now) the national choices for Belgium, Luxembourg, The Netherlands and Switzerland. These annexes can be downloaded free of charge, when available, from the websites of the (national) organisations as well as any errata, corrections and additions to these textbooks.

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