



# **Design of Steel Structures: Eurocode 3: Design of Steel Structures, Part 1-1: General Rules and Rules for Buildings**

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# Design of Steel Structures: Eurocode 3: Design of Steel Structures, Part 1-1: General Rules and Rules for Buildings

## Design of Steel Structures: Eurocode 3: Design of Steel Structures, Part 1-1: General Rules and Rules for Buildings

This book introduces the fundamental design concepts of Eurocode 3 for steel structures in building construction, and their practical application.

Following a discussion of the basis of design, above all the principles of the limit state approach, the material standards and their use are detailed. The fundamentals of structural analysis and modeling are presented, followed by the design criteria and approaches for various types of structural members. The following chapters expand on the principles and applications of elastic and plastic design, each exemplified by the step-by-step design calculation of a braced steel-framed building and an industrial building, respectively. Besides providing the necessary theoretical concepts for a good understanding, this manual intends to be a supporting tool for practicing engineers. To that end, numerous worked examples are provided throughout the book, concerning the analysis of steel structures and the design of elements under several types of actions. These examples facilitate the application of Eurocode regulations in practice.

The second edition contains more worked examples and extended explications on issues like torsion.

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