



Design of Steel Structures: Eurocode 3: Designof Steel Structures, Part 1-1: General Rules and Rules for Buildings (Eccs Eurocode Design Manuals)

From Ernst & Sohn



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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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Editorial Review

About the Author

Luis Simões da Silva is Professor of Steel Construction at the Civil Engineering Dept. of the University of Coimbra/ Portugal, where he is responsible for the Steel and Mixed Building Technologies Research Centre. He is President of the Portuguese Steelwork Association (CMM) and member of the Executive Board and President of the Technical Management Board of the ECCS. He has authored over 300 scientific articles in this field.

Rui A. D. Simões is Professor at the Civil Engineering Dept. of the University of Coimbra/ Portugal, where he got his BSc in 1990, his MSc in 1995 and his PhD in 2000. He is heavily involved in experimental research work and teaching of steel related courses in the BSc, MSc, PhD and continues education programs.

Helena Gervásio is Visiting Professor at the Civil Engineering Department of the University of Coimbra/ Portugal. She is Technical Director of the GIPAC Lda., an engineering consultancy company specialized in structural engineering. She is member of the Technical Committee TC14-Sustainability of ECCS.

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