



Design of Cold-formed Steel Structures

The book covers the design of cold-formed steel structures in building based on the Eurocode 3 package, particularly on EN 1993-1-3. For this purpose, the book contains the essentials of the theoretical background and design rules for cold-formed steel sections and sheeting, members and connections for building applications. Elaborated worked examples and design applications – more than 200 pages – are included in the chapters in order to make them more understandable for the reader.

Dan Dubina, Full Professor of Steel Structures, is the head of the Department of Steel Structures and Structural Mechanics at the "Politehnica" University of Timisoara, Romania, and a corresponding member of the Romanian Academy. He has published more than 400 scientific papers and 26 books and edited volumes in the field of cold-formed steel structures, seismic resistant steel structures, structural connections and structural analysis. He works as a code drafter, proof engineer and is a renowned expert in steel structures. Moreover, he is a member of the ECCS Technical Committees TC7- Cold Formed Thin Walled Sheet Steel in Building, TC8 - Structural Stability, TC10 - Structural Connections and TC13 - Seismic Design. Prof. Dubina was awarded the ECCS Steel Design Award twice.

Viorel Ungureanu is Associate Professor at the "Politehnica" University of Timisoara, Romania. From 1994 to 2003 he worked as a Senior Researcher at the Romanian Academy, Timisoara Branch, in the laboratory of Steel Structures. His experience in the field of steel structures and especially cold-formed thin-walled structures is reflected in numerous research projects and more than 100 scientific papers. He participated in the drafting teams for the Romanian design code and technical regulations for steel structures. He is a member of the ECCS Technical Committees TC7 - Cold Formed Thin Walled Sheet Steel in Building and TC14, Sustainability and Eco-Efficiency of Steel Buildings.

Raffaele Landolfo is Full Professor of Structural Engineering at the University of Naples "Federico II" and head of the Department of Constructions and Mathematical Methods in Architecture. He was involved as an expert in the activities of both national working groups and European Project Teams dealing with the conversion of ENV to EN 1993-1-3, which concerns cold-formed thin-walled members and sheeting. He is chairman of the ECCS Technical Committee n.13 on Seismic Design and he is member of ECCS Technical Committees TC7 - Cold Formed Thin Walled Sheet Steel in Building and TC14 - Sustainability and Eco-Efficiency of Steel Buildings.



ECCS Eurocode Design Manuals

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Eurocode 3: Design of Steel Structures
Part 1-3: Design of Cold-formed Steel Structures

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