Abstract
This book is primarily concerned with the design of cold-formed steel members and structures in building construction in Europe. For this reason it is mainly focused on the EN 1993-1-3, and the related parts of EN 1993 (e.g. EN 1993-1-1, EN 1993-1-5, EN 1993-1-8, etc.). Generally, the book contains the theoretical background and design rules for cold-formed members and connections, accompanied by design oriented flow charts and worked examples for common building application. The book was conceived primarily as a technical support for structural engineers in design and consulting offices, but it is expected to be of interest and useful for students and staff members of structural engineering faculties, as well as, for engineers working in steelwork industry.

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Introduction

In this presentation, cold formed thin gauge members (for simplicity: ‘thin-walled members’) refer to profiles, which the design code Eurocode 3 Part 1.3 (ENV 1993-1-3) is intended for. These profiles are usually cold rolled or brake pressed from hot or cold rolled steel strips. Due to the manufacturing process, sections of cold formed structural shapes are usually open, singly-, point- or non-symmetric. Most common cross-section types of thin-walled members (U, C, Z, L and hat) are shown in Figure 1.1, see ref.