



Eurocode 8: Design of Structures for Earthquake Resistance. Pt.1

By ECCS - European Convention for Constructional Steelwork / Associação Portuguesa de Construção Metálica e Mista

Condition: New. Publisher/Verlag: Ernst & Sohn | General Rules, Seismic Action and Rules for Buildings | The book deals with the seismic design of steel structures based on EN 1998-1 (2004). It contains the essentials of theoretical background of seismic engineering, design requirements and detailing rules for building applications. Calculation examples are included in the relevant chapters in order to provide a better understanding to the Reader. In addition, the book provides insights about the design assisted by testing as well as some design examples of real buildings. | PART 1. DESIGN CRITERIA AND CODIFICATION1 Seismic design principles1.1. Capacity design criteria1.2. Dissipative structures and typologies of steel structural systems1.3. State of European seismic codification and new perspectives1.4. Conceptual design2 Introduction to EN1998-1: Explanation and commentary2.1. Seismic action2.2. General recommendations for seismic resistant structures2.3. Analysis methods2.4. Detailed provisions to design steel structuresPART 2. WORKED EXAMPLES3 Multi-storey building with moment resisting frame3.1. General data3.2. Design and safety check under gravity loads3.3. Design and safety check under seismic actions4 Multi-storey building with concentric brace frame4.1. General data4.2. Design and safety check under gravity loads4.3. Design and safety check under seismic actions5 Multi-storey building with eccentric brace frame5.1. General data5.2. Design and safety check under gravity...



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