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4.10.1. Unprotected steel members4.10.2. Protected steel members; 4.11. Temperature in stainless steel members; 4.11.1. Example; 5. Mechanical Analysis; 5.1. Basic principles; 5.2. Mechanical properties of carbon steel; 5.3. Classification of cross-sections; 5.4. Fire resistance of structural members; 5.4.1. General; 5.4.2. Tension members; 5.4.3. Compression members; 5.4.4. Shear resistance; 5.4.5. Laterally restrained beams; 5.4.5.1. Uniform temperature distribution; 5.4.5.2. Non-uniform temperature distribution; 5.4.5.3. Bending and shear; 5.4.6. Laterally unrestrained beams
5.4.6.1. The elastic critical moment for lateral-torsional buckling5. 4.6.2. Resistance to lateral-torsional buckling; 5.4.7. Members with Class 1, 2 or 3 cross-sections, subjected to combined bending and axial compression; 5.4.8. Members with Class 4 cross-sections; 5.4.9. Some verifications of the fire resistance not covered by EN 1993-1-2; 5.4.9.1. Shear buckling resistance for web without intermediate stiffeners; 5.4.9.2. Cross section verification of a member subjected to combined bending and axial force (compression or tension); 5.4.9.2.1. Class 1 and 2 rectangular solid sections
5.4.9.2.2. Class 1 and 2 doubly symmetrical I- and H-sections5.4.9.3. Bending, shear and axial force; 5.5. Design in the temperature domain. Critical temperature; 5.6. Design of continuous beams; 5.6.1. General; 5.6.2. Continuous beams at room temperature; 5.6.3. Continuous beams under fire conditions; 5.7. Fire resistance of structural stainless steel members; 5.8. Design examples; 6. Advance Calculation Models; 6.1. General; 6.2. Thermal response model; 6.3. Mechanical response model; 7. Joints; 7.1. General; 7.2. Strength of bolts and welds at elevated temperature
7.3. Temperature of joints in fire

Sommario/riassunto

This book explains and illustrates the rules that are given in the Eurocode for designing steel structures subjected to fire. After the first introductory chapter, Chapter 2 explains how to calculate the mechanical actions (loads) in the fire situation based on the information given in EN 1990 and EN 1991. Chapter 3 presents the models to be used to represent the thermal action created by the fire. Chapter 4 describes the procedures to be used to calculate the temperature of the steelwork from the temperature of the compartment and Chapter 5 shows how the information given in EN 1993-1

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Soggetti	Religion & beliefs
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Sommario/riassunto	This is a collection of articles by established scholars in the fields of History, Philosophy, Literature and Religious Studies. These are original essays which address the issues and concerns that now dominate the study of religion in its multiple dimensions with a fresh approach. They critique settled opinions and raise new and engaging questions concerning cultural hermeneutics and the academic study of religion. Embellished with a substantive and topical introduction by the editor, this collection of articles will be of abiding interest to scholars and interested lay persons alike.