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Nota di contenuto	Intro -- Book_5142_C000 -- Half Title -- Title Page -- Copyright Page -- Contents -- Post-Earthquake Fire Hazard Task Committee -- Executive Summary -- Book_5142_C001 -- Chapter 1 : Overview -- 1.1 Introduction -- 1.2 Historical Events -- 1.3 What Causes Fire Ignitions Following an Earthquake? -- 1.4 Codes and Provisions -- 1.5 Scope and Objectives -- References -- Book_5142_C002 --

Chapter 2 : Fire Following Earthquake at the Building Level -- 2.1 Earthquake Hazard Scenario -- 2.2 Building Response to Earthquake: Damage to the Structural System -- 2.3 Building Response to Earthquake: Damage to the Nonstructural Components -- 2.3.1 Fire Compartmentation -- 2.3.2 Active Fire Protection Systems -- 2.3.3 Egress Routes -- 2.3.4 Passive Fire Protection for Structural Elements -- 2.4 Fire Hazard Scenario -- 2.4.1 Sources of Ignition -- 2.4.2 Overview of Predictive Models for Post-Earthquake Fire Ignitions -- 2.4.3 Design Fire Scenario -- 2.5 Building Response to Fire -- 2.5.1 Background -- 2.5.2 Performance-Based Structural Fire Engineering -- 2.6 Building Response to Fire Following Earthquake -- 2.6.1 Numerical Studies -- 2.6.2 Experimental Studies -- 2.7 Summary -- References -- Book_5142_C003 -- Chapter 3 : Fire Following Earthquake at the Community Level -- 3.1 Modeling Approach and Available Platforms -- 3.2 Ignition -- 3.2.1 Data-Driven Models -- 3.2.1.1 Earthquake Intensity -- 3.2.1.2 Population Density -- 3.2.1.3 Floor Area -- 3.2.1.4 Building Type -- 3.2.1.5 Building Collapse -- 3.2.2 Physics-Based Models -- 3.3 Spread -- 3.3.1 Data-Driven Models -- 3.3.2 Physics-Based Models -- 3.4 Suppression -- 3.5 Summary -- References -- Book_5142_C004 -- Chapter 4 : Recommendations -- Book_5142_IDX.

Sommario/riassunto

This book provides background for the analysis, design, and assessment of building structural systems under fire following earthquakes.
