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Nota di contenuto	<p>Intro -- Fire Performance of Materials and Structures -- Preface --</p> <p>Table of Contents -- Chapter 1: Fire Retardancy and Thermal Decomposition of Biopolymers and Biocomposites -- Development of Advanced Bio Thermoset Polymers from Sustainable Resources --</p> <p>Investigation of Thermomechanical and Flammability Behaviors of Hemp/Polypropylene Reinforced Polylactic Acid Composites --</p> <p>Handling Composites at Aircraft Accident Sites: An Evaluation of the Fracture Features in Burnt CFRP after the Application of a Fixant Solution -- Chapter 2: Fire Resistance of Green Concrete -- The Influence of Organic Fibers on the Fire Resistance of Concrete --</p> <p>Performance Evaluation of Sustainable High-Strength Lightweight Concrete Incorporating Wastes as Aggregates at Elevated Temperatures -- Geopolymer-Concrete-Based Eco-Friendly and Fire-Resistant Concrete Structures: Effect of Exposure to High Temperature at Varying Heating Duration -- Evaluation of the Mechanical Properties of Recycled Coarse Aggregate Concrete against the Action of Fire -- Investigation of NWC and Structural LWC Using Local Material in the UAE Exposed to Elevated Temperatures -- Chapter 3: Fireproofing Evaluation of Reinforced Concrete and Structures -- The Efficiency of Non-Destructive Testing to Estimate the Damage Level of Fiber-Reinforced Concrete Exposed to High Temperatures -- Evaluation of Structural Response in Ultra-High-Strength Concrete and Carbon Fiber Reinforced</p>

Frames Exposed to High Temperatures Using Numerical Simulation -- Method of Identification of Mechanical Characteristics of Concrete of Reinforced Concrete Crossbars according to the Results of Fire Tests -- Assessment of the Influence of Features of Crack Formation in Reinforced Concrete Products on their Fire Resistance -- Effect of Slenderness Ratio on the Behavior of RC Bearing Walls under Fire Exposure.

Investigation the Effects of Fire on an Industrial Metallic Structure -- Chapter 4: Combustion Modelling -- Cluster Mechanism of the Explosive Processes Initiation in the Matter -- Thermodynamic Calculations of the Main Characteristics of the Combustion Process of Pyrotechnic Nitrate-Metallized Mixtures with Additives of Organic and Inorganic Substances under External Thermal Influences -- Regulations of the Influence of External Thermal Influences on Speed and Explosive Safe Combustion Modes of Pyrotechnic Nitrate-Metallized Mixtures with Metal Fluoride -- Keyword Index -- Author Index.

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**Sommario/riassunto**

Aggregated Book.

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