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Nota di contenuto	Functional Nanomaterials and Advanced Engineering Materials -- Preface -- Table of Contents -- Chapter 1: Green Concrete and Advanced Building Materials -- Estimating the Deterioration due to Chemical Attack in Repurposed Aggregate Concrete Using Image Based Techniques -- Effect of Blending Constant Concentration of Acrylic Polymer with Varying Amount of Fly Ash to the Permeability and Strength of Large Aggregate Pervious Concrete -- Performance of the Mechanical and Durability Properties of Eco-Friendly Concrete Containing Glass Powder (GP) and Ground Granulated Blast Slag (GGBS) -- Increasing Concrete Durability Against Organic Acid Corrosion with Coal Fly Ash and Bagasse Fly Ash as Cement Replacements -- Evaluation of the Mechanical Properties of Recycled Coarse Aggregate Concrete against the Action of Fire -- Evaluation of the Influence of Brick Dust and Rice Husk Ash on the Mechanical and Physical Behavior of a Geopolymeric and Eco-Efficient Concrete with Partial Cement Replacements -- Exploring Stone Material Behavior and Damage Analysis with Digital Image Correlation -- Slenderness Limits and Buckling Response of Bamboo Scrimber under Axial Compression -- Effect of Magnetic Water on Properties of Fresh and Hardened Concrete

-- Development of Wood-Plastic Soil Tray Composite (WPSTC) Using Polymerized Coir-Wood Dust for Green Roof Structures -- Chapter 2: Composite Materials -- Enhancing Mechanical Properties with Water Hyacinth Fiber-Reinforced Bio-Based Epoxy Composites -- Carbon Fiber/Epoxy Vitrimer Composite Material for Pressure Vessels: Towards Development of Sustainable Materials -- Enhancing Dispersion Ability and Bond Strength of Boron Nitride with Epoxy Resin by Ar<sup>+</sup> Ion Beam in Reactive Oxygen Gas Environment -- Research on Joint Strength and Mechanism of Composite/Aluminum Alloy Connections Based on FDS Technology -- Chapter 3: Synthesis, Properties and Applications of Functional Nanomaterials -- Green Synthesis of Magnesium Oxide Nanoparticles Using Melaleuca leucadendra Waste -- ZnO Deposited on Natural Rubber Films by Different Coating Methods -- Impact of WO<sub>3</sub>-Nanoparticles on the Setting Time and Early Strength for Different Cementitious Materials -- Keyword Index -- Author Index

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