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Nota di contenuto	Recent Advances in Building Materials and Technologies- An Introduction -- Utilization of Waste Materials in Construction -- Effect of Rheological Properties of The Composite on Stress-Strain Behavior of Moulded Structure -- Effect of Recycled Broken Glass and Stone Aggregate Contents on The Compressive Strength of Concrete -- Inclusion of Different Plastic Wastes as Construction Material in Concrete – A Review -- Experimental Characterization of Concrete Properties with Partial Replacement of Scrap Ceramic Tiles -- Development of Thin Joint Masonry using Recycled Mortar for Sustainability -- Assessing Mechanical Properties of Concrete Modified with Use of Nano-Silica and GGBS -- Experimental Investigation on Physical and Mechanical Properties of Polyethylene Terephthalate Plastic Brick -- An Experimental Study on Concrete Made by Magnetic Water and Admixture -- Exploring Plastic Waste as a Viable Aggregate Alternative for Structural Concrete in The Indian Context --

Experimental Study on Strength Behavior of M30 Grade Broken Tiles Waste Concrete -- Experimental Investigation on LECA as a Substitute Material for Coarse Aggregate in Concrete -- A Review on "Effect of Partially Used Sustainable Sea Shell Powder and Alccofine in Concrete Production" -- Utilization of Unused Old Cement in Construction Materials -- Use of Reclaimed Foundry Sand (RFS) as Fine Aggregate in Mortars and Concrete.

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Sommario/riassunto

This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD 2023) hosted under the aegis of the Group of Twenty (G20) and Civil 20(C20) at Jyothy Institute of Technology, Bengaluru, India. The topics covered in this book are sustainable materials with low embodied carbon, such as recycled steel, reclaimed wood and alternative binders like geopolymer concrete; renewable materials like bamboo and straw; energy-efficient technologies, including solar panels, energy-efficient insulation; and smart building systems. This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable and resilient infrastructure that aims for communities with net zero targets.

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