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Nota di contenuto Chapter 1. Prediction of Global Solar Radiation Based on Sunshine

Hours in Ethiopia's Amhara Region -- Chapter 2. Investigation and optimization of the energy band gap of PAM/PVP/Al2O3 composites -- Chapter 3. Characterization of False Banana Fiber as a Potential Reinforcement Material for Geopolymer Composites -- Chapter 4. Drying Characteristics and Kinetic Study of Coffee Cherries (Coffee Arabica) in Convective Hot Air Dryer -- Chapter 5. Effect of Partial Replacement of Cement by Metakaolin on Engineering Properties of Concrete -- Chapter 6. Engineering Properties of Concrete with Partial Replacement Cement and Course aggregate by Waste Glass Powder and Steel Slag Aggregate -- Chapter 7. Experimental Investigation on

Steel Slag Aggregate -- Chapter 7. Experimental Investigation on Properties of Mortar Containing Waste Marble as Fine Aggregate --

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## Sommario/riassunto

This book comprises selected papers from the proceedings of the 10th EAI International Conference on Advancements of Science and Technology (EAI ICAST 2022). It presents the latest developments, innovations, and sustainable technologies in materials and energy, covering various research methods, including numerical and experiment analysis. Materials-related topics focus on construction, energy, and other material replacements for various applications. Energy-related topics covered include applications of solar technology, wind energy analysis, and related energy research. Presents selected papers from the 10th EAI International Conference on Advancements of Science and Technology; Covers current basic research in materials and energy; Relevant for researchers, academics, and professionals.