

Multifunctional Cement-Based Materials (Civil and Environmental Engineering)

By Deborah D. L. Chung



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Unique in its focus on functional properties, this book examines the resistive, piezoresistive, thermoelectric, and electromagnetic behavior of multifunctional cement-based materials for reduced cost, improved durability and maintenance, and optimization of various structural designs. The author analyzes cement-based compounds for enhancing a wide-range of structures, including buildings, bridges, highways, automobiles, and aircrafts, exploring characteristics such as vibration damping, strain sensing, electromagnetic and magnetic shielding, electrical conductivity, and thermal insulation for improved structure stability and performance.

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