第46回コンクリート工学講演会 | A. 材料・施工 | 特殊コンクリート

特殊コンクリート

座長:齋藤尚(土木),山﨑順二(建築)
2024年6月26日(水) 13:00 ～ 15:00 第2会場 (小展示室B)

[1194]EFFECT OF SPECIFIC SURFACE AREA OF FIBER INCORPORATED IN CEMENTITIOUS COMPOSITES ON SHIELDING EFFECTIVENESS ACCORDING TO ELECTRICAL CONDUCTIVITY

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キーワード：electrical conductivity、shielding effectiveness、steel fiber、cementitious composites

This study investigates the shielding effectiveness of concrete as protective properties. It is reported that the shielding effectiveness of electromagnetic pulsu(EMP) is closely related to electrical conductivity. Amorphous metallic fiber, smooth steel fiber, and hooked steel fiber were incorporated into cementitious composites to increase electrical conductivity, and the correlation between electrical conductivity and shielding effectiveness was analyzed. The results showed that the electrical conductivity of amorphous metallic fiber with large specific surface area was the highest, and the shielding effectiveness reached saturation after a certain critical point.

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