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Non-destructive Test · Diagnosis (Material properties/Durability)III

座長:林大介(土木),湯浅昇(建築)

Wed. Jun 26, 2024 3:20 PM - 5:20 PM Room 6 (多目的ルームB)

[1296]IMAGING METHODOLOGY FOR DENSITY DISTRIBUTION AND CARBONATION DEPTH OF CONCRETE SPECIMENS USING HYPERSPECTRAL ANALYSIS

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The current state of experiments regarding the ability to study hyperspectral images for the identification of the depth of carbonation on concrete surfaces is summarized in this paper. A series of concrete samples of different types were subjected to carbonation acceleration simultaneously. These samples were then photographed using a hyperspectral camera to obtain their hyperspectral data and analyzed. Based on the current study, carbonation fronts, areas of carbonation with varying degrees of body, and various aggregates in the concrete can be observed from the hyperspectral data.