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Multi-Scale Mechanics of Cementitious/Porous and Composite-Based Materials

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Message from the Guest Editor

Cementitious/porous and composite materials are encountered in a large number of structural mechanics, industrial, aerospace, civil and biomedical engineering applications and their macroscopic behavior depends, heavily, on their nano-to-micro structures. This linkage of various scales has triggered a significant amount of the research and development of micromechanical-based methods in various engineering and science disciplines. Many recent research studies using nano/micro-indentation, grain-scale methods and discrete-based computational tools have attempted to provide insights into the complex behavior of cementitious/porous and composite materials and there has been a general consensus in the international literature that the enhancement of constitutive models that can predict the behavior of these materials, necessitating further advancements in micro-mechanical based analyses, both experimentally and analytically.

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Message from the Editor-in-Chief

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