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Room:Convention Hall

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Composite elasticity of porous object investigated by a three-dimensional buffer-layer FEM modek

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A porous system has distinct macroscopic proprieties that are very different from those of a non-porous matrix. There has been much interest in clarifying such characteristics. In the present study, a three-dimensional buffer-layer finite element method (FEM) model was developed succeeding the two-dimensional buffer-layer FEM model. The comparison between the two and three dimensional models is discussed.

Keywords: FEM, porosity, composite elasticity