

The Dirichlet BVP for a Sphere with Triple Porosity

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The present paper studies quasi-static theory of elasticity for sphere with triple porosity. The general solution of the equations for a homogeneous isotropic materials with triple porosity is presented by means of elementary (harmonic, metaharmonic and biharmonic) functions. We constructed an explicit solution of the Dirichlet type boundary value problem (BVP) for a sphere in the form of absolutely and uniformly convergent series.