On 3-d strains in a thin coat of a plane domain

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Abstract

Three-dimensional strains in a thin coat of a plane domain was investigated. The problem for the coat of the unite disk was solved when the horizontal layer of the constant thickness is pressed so that the points of the boundary of the plane base of the layer and the points of its upper edge was displaced. The boundary value problem for the thin coat of a plane domain was formulated and solved.

Keywords

Analytic functions, Boundary conditions, Dirichlet problem, Displacements