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ASYMPTOTIC ANALISYS OF A MIXED PROBLEM OF ELASTICITY THEORY FOR RADIAL-INHOMOGENEOUS CYLINDER OF SMALL THICKNESS

Abstract

In the present paper the spatial stress-strain state of a radial inhomogeneous cylinder of small thickness is investigated by the method of direct asymptotic integration of elasticity theory equations. Inhomogeneous and homogeneous solutions are constructed. The character of stress-strain state is explained on the base of qualitative analysis.