

Vagif D. GADJIEV, Husamaddin M. GASYMOV,
Nizami Z. GULIYEV

**AXISYMMETRIC FORM OF STABILITY
LOSS OF AN INHOMOGENEOUS
CYLINDRICAL SHELL OF
ANNULAR CROSS SECTION**

Abstract

In the paper we consider an axisymmetric form of stability loss of a cylindrical shell inhomogeneous in length, inhomogeneous in thickness under axial compression. In the first case Bubnov-Galerkin method is applied and a formula for determining critical value of contractive load is obtained. Calculation is conducted and a graph of dependence between critical load and inhomogeneity parameter is constructed.