

RZAYEV O.G.

**STABILITY LOSS AROUND AN INTERFACE CRACK
IN A SANDWICH PLATE**

Abstract

A stability loss problem around an interface cracks in a clamped plate is studied. The material of the layers in this plate assumed to be elastic, isotropic and homogeneous. The investigations are carried out in the framework of the piece-wise homogeneous body model with the use of Three Dimensional Linearised Theory of Stability. Corresponding boundary value problems are solved numerically by employing FEM. The numerical results, which show the critical (failure) values of the external compression force are presented for various problem parameters.