

**ON THE DELAMINATION OF THE ELASTIC AND VISCOELASTIC  
COATING NEAR THE CLAMPED END OF THE SANDWICH PLATE**

**Abstract**

*In the framework of the piecewise homogeneous body model with the use of the Three-Dimensional Linearized Theory of Stability (TDLTS) the local buckling of the elastic and viscoelastic coating around the interface micro-crack is investigated. The sandwich plate is considered and it is assumed that between the upper face and middle layers of the plate there is a crack. Moreover, it is assumed that this plate is clamped at the ends and the micro-crack is near field equations of the theory of viscoelasticity by employing the boundary perturbation method. The corresponding boundary-value problems are solved by employing the Laplace transform and finite element Method. Using obtained numerical results the influence of the distance between the interface micro-crack and the clamp to the values of the critical parameters is analyzed.*