

TIME MODELLING OF DESTRUCTION PROCESS OF HEREDITARILY ELASTIC PLATE WITH CIRCULAR HOLE AT UNIAXIAL TENSION

Abstract

Analytical formula for destruction time of points of hereditarily elastic plate with circular hole is obtained. The solution of G.Kirsch for stress components is used. The relation determining the stress in model plate from polymeric material on given modeling time is obtained under the influence of that for modeling time in model plate the damage is accumulated as equal number of accumulated damaging in full-score plate from steel fusion of the action time natural stress.