

DELAYED FRACTURE BY TENSIONING  
INHERENTLY ELASTIC THICK PLATE WITH  
TWO-SIDED EXTERIOR DEEP RECESS

Abstract

Analytic formulae for time preceding to damage and for time to failure of points of the narrowest section of the inherently elastic plate with two-sided exterior deep recess are obtained. H.Neuber's solution for the stress components is used. The graphics reflecting damage and durability processes from different geometric and mechanical parameters for two given types of loading are constructed.