

MECHANICS

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ON A MODEL OF DELAYED FRACTURE OF INTERNAL PRESSURE ANNULAR DOMAIN

Abstract

In the paper the process of diffuse fracture of thick tube under internal pressure in the presence of damageability property of tube material on the basis of experimental observations, is modeled as two-phase. Two fracture fronts sequentially moving one after another are formed correspondingly to this representation. A system of equations describing motion of these fronts is constructed. Numerical illustration has been considered.