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STRESSES IN ELASTICO-PLASTICALLY DEFORMED PLATE WITH TWO-SIDED EXTERNAL NECK, UNDER UNIAXIAL TENSION

Abstract

The distribution of stresses in narrow section of plate with two-sided external hyperbolic neck at its elastico-plastic deformation at uniaxial tension is determined. The state of the hardening in plastic domain is taken into account. The method of the solvability of this problem, offered by G.V. Uzhik [1] and developed V.S. Youkouski [2] is generalized. And the solution, received by L. Neuber in the case of elastic tension of the given plate [3] is used.