

FIELD OF VELOCITIES OF THE SPACE STATICALLY DETERMINATE TASK OF A THEORETICAL TOUGHNESS

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The linearization of a condition of the Mises is yielded, by introduction of the small parameter $\varepsilon = \Delta k/k$, and the condition of a complete toughness is considered for calculation of the space intense distorted state. It allows to make a system of the differential equations obtained by substitution of conditions of the Cauchy in relations of the associated law of a toughness. The research of the given system displays, that it is hyperbolic and has material performances. The determination of differential relations along characteristic planes allows to formulate the finite-difference scheme.