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The method for calculating the limiting states under multivariate thermal and force influences is proposed for structurally inhomogeneous rods. Features of limiting surfaces in a multiparameter space are revealed. The method is illustrated by a numerical example of an inhomogeneous rod of a T-shaped section, loaded with transverse and longitudinal forces. The boundary of limiting states in the form of a flat polygon is constructed. At the characteristic points of the limiting boundary, the limiting strain distributions are shown. At corner points of the boundary, the strength criterion is implemented in the form of a two-point criterion.

*Key words: heterogeneous rod, layered rod, strength criterion, multi-parameter effect, thermal influence.*