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ASYMPTOTIC ANALYSIS OF BENDING PROBLEM FOR TRANSVERSAL-ISOTROPIC PLATE OF VARIABLE THICKNESS

Abstract

The homogeneous solutions remaining plate faces stressless were constructed. The classification of homogeneous solutions was made. The constructed homogeneous solutions allow to unload the lateral surface at arbitrary loading. By means of the Lagrange principle a boundary value problem was reduced to solving of infinite linear algebraic equations which are known from the constant thickness plate theory.