

## **Problem of cylindrical deformation of prismatic shell with the thickness vanishing at infinity**

The present work is devoted to the problem of cylindrical deformation of prismatic shell with the thickness as follows.

$$h = h_0 e^{-\alpha x_2}, \quad h_0 = \text{const} > 0, \quad \alpha = \text{const} \geq 0, \quad 0 \leq x_2 < \infty; \quad -\infty < x_1 < +\infty, \quad (x_1, x_2) \in \omega,$$

Where  $\omega$  is the projection of the plate on  $Ox_1x_2$ ,

$$\omega := \{(x_1, x_2) : -\infty < x_1 < +\infty, 0 < x_2 < +\infty\}.$$

Solutions of the problems are presented by integral forms, numerical results are also give.