

*V.I. Kolchunov, ScD, professor
I.A. Yakovenko, PhD
T.V. Tygai, assistant
National Aviation University, Kiyv*

**THE TECHNIQUE OF HARDNESS PLANE-STRESSED REINFORCED CONCRETE
CONSTRUCTIONS, BASED ON THE SOFTWARE PACKAGE «LIRA PRO»**

The technique of hardness plane-stressed reinforced concrete constructions, based on the use of equivalent models. The variants of its determination for plane-stress and core wall of reinforced concrete structures in areas with inclined cracks that appear implicitly and offered a special reception explicit modeling of cracks, crevices, which are located along the diagonals of the construction. Present calculation method implemented in the software package "Lira Pro» by detailed algorithm.

Keywords: *rigidity, plane-stressed reinforced concrete constructions, crack-gap equivalent model.*