

**VÎRGOLICI, Horia**, *AN ALGORITHM FOR THE OPTIMAL SYNTHESIS OF A GUIDING MECHANISM*

**Abstract:** The aim of this paper is to give a different method from the classic ones for the synthesis of the four-bar guiding mechanism. The method consists of the decomposition of the mechanism into small parts, simple kinematic chains, which are synthesized separately and then we put together the results, obtaining the synthesis of the whole mechanism.

**Keywords:** optimal synthesis, guiding mechanism synthesis, simple cinematic chain