

ELASTODYNAMIC ANALYSIS OF FOUR BAR MECHANISM USING MATLAB AND ANSYS WB

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ABSTRACT

It is well-known that the dynamic analysis of mechanisms operating at high speed cannot neglect the effects of link elastic flexibility. In fact this effect may effect the dynamic response of the output link motion, so that the mechanisms may fail to perform their assign tasks effectively. In this paper FEM presented for dynamic analysis of high speed mechanism. Based on this method progrmme was developed in MATLAB for determined deformation in coupler link of mechanism. An example problem has been solved. Same example has been taken in ANSYS WB for elastodynamic analysis. Results from MATLAB and ANYSYS WB are compared and presented in form of graphs

KEYWORDS: MATLAB, ANYSYS WB , Dynamic Analysis.