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Res. Agr. Eng.

Matej J.:

Tracked mechanism simulation of mobile machine in

MSC.ADAMS/View

Res. Agr. Eng., 56 (2010): 1-7

Tracked travel mechanism is, in some cases, a significant alternative of wheeled travel mechanism. A suitability of application depends on particular work conditions, which opens the space for computer simulation. This paper is focused on possibilities of tracked vehicle simulation in MSC.ADAMS; mainly in the universal module MSC.ADAMS/View, which is not especially customized for tracked vehicle simulations. The study presents a concrete example of tracked vehicle simulation and a method of its successful realization during travel through terrain obstacle as a basic manoeuvre for evaluating of chassis properties and work ergonomomy.

Keywords:

tracked mechanism; tracked vehicle; MSC.ADAMS/View; dynamics of movement; simulation; chassis; work ergonomomy

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