

¹INFLUENCE OF DETERIORATION OF VIBRATION PARAMETERS ON MOTOR VEHICLE'S VIBRATION COMFORT

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Abstract

A model based dynamic simulation has a significant role during motor vehicle's development. A role of modeling is very significant in the preliminary phases of design - in definition of governing parameters. In practice, it is usually assumed that the vehicle's vibration parameters are constant during exploitation, which is basically incorrect. Namely, all the research shows that there is vibration parameters deterioration during exploitation and, thus, there are changes in motor vehicle's dynamic characteristics. In this paper, an attempt is made, based on preliminary results, to point to the fact that these changes should also be considered in preliminary phases of vehicle design.

Key words: vehicle, vibration parameters, deterioration, comfort

PRILOG ISTRAŽIVANJU UTICAJA DEGRADACIJE KARAKTERISTIKA OSCILATORNIH PARAMETARA NA OSCILATORNU UDOBNOST MOTORNH VOZILA

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Rezime

Tokom razvoja motornih vozila, značajnu ulogu ima dinamička simulacija, koja je zasnovana na modeliranju. Uloga modeliranja je veoma značajna u prvim fazama projektovanja, tokom definisanja opredeljujućih parametara. U praksi se obično pretpostavlja da su oscilatorni parametri vozila tokom eksploatacije nepromenljivi, što u osnovi nije tačno. Naime, sva istraživanja pokazuju da tokom eksploatacije dolazi do degradacije oscilatornih parametara i, zbog toga, promene dinamičkih karakteristika motornih vozila. U ovom radu će biti učinjen pokušaj da se, na osnovu preliminarnih rezultata, ukaže na činjenicu da se i u ovim najranijim fazama projektovanja te promene uključe u razmatranje.

Ključne reči: vozilo, oscilatorni parametri, degradacija, oscilatorna udobnost

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