

SUMMARIES
REZIMEA

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**A CONTRIBUTION TO FORMALIZED MODELING
OF VEHICLE SYSTEM DYNAMICS**

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Modeling of vehicle system dynamics is very complex problem. It includes very high knowledge of mechanics, vehicle's system functions, and mathematics, so there are always possibilities for errors. In the last two decades, there are efforts to automate this process. Therefore, a lot of commercial softwares were developed. This paper represents an attempt to apply software developed for symbolical modeling of robots on dynamic phenomenon in motor vehicle, especially in handling and ride comfort.

Key words: vehicle, modeling, formalized, dynamics, handling, vibrations

**PRILOG FORMALIZOVANOM MODELIRANJU DINAMIČKIH POJAVA
VOZILA**

Modeliranje dinamičkih pojava motornih vozila je veoma složen problem. Ono podrazumeva veoma dobro poznavanje mehanike, funkcionisanje sistema vozila i matematike tako da zbog složenosti proseca nisu isključene i greške. Zbog toga se u zadnje dve decenije čine naponi na automatizaciji ovog procesa. Iz tih razloga razvijen je veliki broj komercijalnih programskih paketa ove vrste. U ovom radu učinjen je pokušaj da se primeni programa razvijen za simboličko modeliranje robota na dinamičke pojave kod motornih vozila naročito na upravljivost i udobnost.

Ključne reči: vozilo, modeliranje, formalizam, dinamika, upravljanje, vibracije