

## ASSESSMENT OF MOTOR VEHICLE BRAKING PERFORMANCE BY A SIMULATION METHOD

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*The efficiency of braking systems of motor vehicles, especially from the standpoint of compliance with requirements, is primarily assessed by experiment. In view of all the specifics of vehicle testing, it is logical that the testing of the braking performance of vehicles should be carried out only when there is a high degree of confidence that the system will really be able to meet the set requirements. It is necessary to know all the features of the braking system in order to achieve this confidence.*

*The years-long research carried out so far has showed and proven that it is possible to forecast the brake efficiency characteristics very successfully. Further studies attempted to apply the same to the entire braking system. Bearing that in mind, this paper compares the motor vehicle braking performance results obtained by a computer simulation method and the results obtained by testing in the field.*

**Key words:** *braking system, braking performance, simulation.*

## OCENA EFIKASNOSTI KOČENJA MOTORNOG VOZILA METODOM SIMULACIJE

*Efikasnost kočnog sistema motornih vozila, posebno sa stanovišta zadovoljenja propisa, ocenjuje se prvenstveno eksperimentalnim putem. Imajući u vidu sve specifičnosti ispitivanja vozila logično je da ispitivanja kočnih karakteristika vozila treba vršiti tek onda kada postoji visok stepen poverenja da će kočni sistem zaista biti u stanju da ispuni postavljene zahteve. Da bi ovo poverenje moglo da se stekne neophodno je da se poznaju sve osobine kočnog sistema.*

*Dosadašnja višegodišnja istraživanja su pokazala i dokazala da je moguće veoma uspešno predvideti karakteristike efikasnosti kočnice. Daljim rado je pokušano da se isto primeni i na ceo kočni sistem. Imajući to u vidu u ovom radu su prikazani rezultati dobijeni simulacijom kočenja sa rezultatima dobijenim ispitivanjem u eksploataciji.*

**Ključne reči:** *kočni sistem, efikasnost kočenja, simulacija.*