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## THE VEHICLES TIRE NONUNIFORMITY STANDARDIZATION

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*Purpose of this article was to especially emphasize, within earlier developed nonlinear dynamic model of the system Driver-Vehicle-Environment, the contribution of radial and lateral nonuniformity of tires on vehicles vibrations.*

*The dynamic model of the system consisted of:*

- functional model of a driver during the straight line motion and*
- spatial model of a vehicle.*

*By the using of mentioned vibratory model a simulation was performed and the optimization method standardized the tire's nonuniformity. The optimization from the aspect of vertical and lateral seat cushion and the steering wheel vibrations were performed within earlier developed program and the Pentium 90 MHZ computer.*

*Key words: Vehicle, vibrations, tire nonuniformity, ride comfort, standardization.*

## NORMIRANJE NEUNIFORMNOSTI PNEUMATIKA MOTORNIH VOZILA

*Cilj ovog rada je da se uz korišćenje ranije razvijenog nelinearnog dinamičkog modela sistema Vozač - Vozilo - Okruženje, utvrdi uticaj radijalne i bočne neuniformnosti pneumatika na vibracije vozila.*

*Dinamiki model sistema su sačinjavali:*

- funkcionalni model vozača tokom pravolinijske vožnje i*
- prostorni model vozila.*

*Uz korišćenje pomenutog modela izvršeno je normiranje neuniformnosti pneumatika. Optimizacija je izvršena sa aspekta minimizacije vertikalnih i bočnih vibracija sedišta i tri komponente vibracija točka upravljača, a uz primenu računara Pentium 90 MHz.*

*Ključne reči: Vozilo, vibracije, neuniformnost pneumatika, oscilatorna udobnost, normiranje.*