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SOFTWARE FOR CALCULATION OF TRACTIVE AND DYNAMIC PERFORMANCES OF MOTOR VEHICLES

For the purpose of providing the "best" performances of motor vehicles, a software application has been developed to enable testing of the existing and designing of new motor vehicles from the standpoints of body, engine, gear box, drive axle, brakes, load and road quality. The software package has been applied in manufacturing buses in the factory "Neobus" (named "Buscoach" - for buses) and in the factory "Ikarbus" (named "Bustruck"- for buses and cargo vehicles).

The paper presents the basics of this software, the application procedure and an example of calculation of bus performances.

Key words: performance, motor vehicles, software.

SOFTVER ZA PRORAČUN VUČNIH I DINAMIČKIH PERFORMANSI MOTORNIH VOZILA

Da bi se odredile "najbolje" performanse motornog vozila, razvijen je softver koji omogućava testiranje postojećih i projektovanje novih motornih vozila u zavisnosti od osovinskog rastojanja, motora, menjača, broja osovina, kočnica, opterećenja i kvaliteta puta. Softverski paket je primenjen u fabrici autobusa "Neobus" (pod imenom "Buscoach" za autobuse) i u fabrici "Ikarbus" (pod imenom "Bustruck" za autobuse i teretna vozila). U radu su date osnove ovog softvera, procedura za njegovu primenu i jedan primer proračuna performansi.

Ključne reči: performanse, motorna vozila, softver.