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THEORETICAL EXPERIMENTS CONCERNING THE COMPUTATION ESTIMATION OF THE RELATION FUEL CONSUMPTION - EMISSIONS EXHAUSTED

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The paper presents a method for the estimation by computation of the polluted emissions exhausted by spark ignition engines. The obtained results are compared with the experimental values measured on a Dacia Nova car, with the apparatus being endowed to the Romanian Motor Register.

After the analytical computation of the emissions exhausted, a very good correspondence between the computation and experimental values was obtained, especially in concerning the curves shape. In concerning the numerical values, the differences are higher for the hydrocarbons and smaller, even overlapped for CO, CO₂ and O₂.

Key words: fuel consumption, emissions exhausted

TEORIJSKO-EKSPERIMENTALNO RAZMATRANJE RELACIJE POTROŠNJA GORIVA-EMISIJA IZDUVNIH GASOVA IZ MOTORA

Rad predstavlja metodu ocene štetne emisije motora sa svećicom putem proračuna. Dobiveni rezultati su upoređeni sa eksperimentalnim vrednostima izmerenim na automobilu "Dacia Nova" aparaturom kojom je opremljena "Romanian Motor Register".

Nakon analitičkog proračunjavanja izduvne emisije ostvarena je veoma dobra podudarnost sa eksperimentalnim vrednostima, a posebno u oblicima kriva.

Razmatrajući numeričke vrednosti razlike su veće za CxHy, a manje ili čak se preklapaju za Co, CO₂ i O₂.

Ključne reči: potrošnja goriva, emisija izduvnih gasova.