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A CONTRIBUTION TO THE ACOUSTIC ANALYSIS OF THE CAR CAVITY BY POINT SOURCES METHOD

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This paper presents point sources method application in acoustic analysis of the car cavity, especially in the case of Yugo Koral vehicle. Roof and floor vibration characteristics (presented through modal mobility) are determined experimentally.

Acoustic pressure results caused by roof and floor vibration are determined by developed computer program. At the same time, the total levels of acoustic pressure for observed component structure are calculated.

Key words: point sources method, acoustic analysis, vehicle.

AKUSTIČKA ANALIZA VOZILA PRIMENOM METODE TAČKASTIH ZVUČNIH IZVORA

U radu je data primena metode tačkastih izvora na akustičku analizu putničkog vozila. Konkretni numerički rezultati su dobijeni prema podacima za vozilo Yugo Koral.

Urađena je analiza krova i poda i kao rezultat je data zavisnost vibracija i akustičkog pritiska od frekvencije . Vibracije ovih delova vozila su dobijene i eksperimentom.

Ključne reči: metod tačkastih zvučnih izvora, akustička analiza vozila.