The Effect of Road Profile on Suspension System of Heavy Truck

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Abstract

All vehicles are affected by the type of the road they are moving on it. Therefore the stability depends mainly on the amount of vibration and steering system, which in turn depend on two main factors: the first is on the road type, which specifies the amount of vibration arising from the movement of the wheels above it, and the second on is the type of the used suspension system, and how the parts connect with each other. As well as the damping factors, the tires type, and the used springs. In our research, we will examine the effect of the road roughness on the performance coefficients (speed, displacement, and acceleration) of the joint points by using a BOGE device.

Keywords—*Dynamic load, suspension system, vibration*

Professional Biography

Salim Farman had completed his MSc in Mechanical Engineering from Volgograd Polytechnic Institute USSR Applied at 1985 and he had PhD from MADE University, Moscow USSR at 1992-1993. He has recent research fields are concerned with mechanical vibrations, mechanical stress analysis. Consultation experience with many of locally and global companies.



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