

Abstract

Braking process of a vehicle is complex, giving possibility to the driver to reduce car's speed or to stop it at big speed in a short distance. Using the diagrams registered for the different working conditions, defined accordingly with the experimental plan, there have been analyzed the values of deceleration, variation of speed and the covered space for each specified moment of braking. As result of the experimental researches, we have reached the conclusion that a good behavior at cars braking is registered when the diagrams of deceleration variation in relation with braking time have a symmetric shape.

Key words: vehicle stability, experimental braking process, ABS