

WSP Performance Evaluation using Stopping Distance Distribution by Simulation

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There is a concept of simulating specific adhesion conditions, to evaluate Wheel Slide Protection (WSP) performance. This allows us to arbitrarily set adhesion conditions which is difficult to ensure reproducibility on track tests and to significantly reduce the number of track tests, which require cost and labor. On the other hand, it is not clear whether or not a WSP system adjusted to specific adhesion conditions is optimal under all naturally occurring conditions. In order to improve the reliability of performance evaluation by simulation, we devise a performance evaluation method using distribution of stopping distance, which is the core part of this paper.