

Reduction Effect of Ground Vibration by Floating Slab Track in High-Speed Rail

Shota FUCHIGAMI Tsutomu WATANABE Hidefumi YOKOYAMA
Takatada TAKAHASHI Yoshitsugu MOMOYA

If the running speed of vehicles further increases in the near future, the ground vibration propagating to the surroundings may increase. In this study, we focus on a floating slab track as a countermeasure against ground vibration and evaluate the dynamic response at 400 km/h by numerical analysis. Moreover, we carry out the vibration test for full-scale track model and confirm that a floating slab track shows high reduction effect of ground vibration.