Numerical Study on Performance Evaluation of Vehicle Guide Device

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In this study, by carrying out the numerical analysis that can present the vehicle behavior after derailment, we have evaluated the performance of the vehicle guide device against vibrational and differential displacements. Moreover, we have examined the vehicle behavior after derailment on the ballasted track. In this study, we have obtained the following results: the vehicle guide device is effective against vibrational and differential displacements. When the vehicle guide device with a height of 235mm is set up outside the gauge, the difference of fragility curve between for the case of running on sleepers and for the case running on flat slab is only a little.