

Recent Topics on Vehicle Technologies

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This paper introduces recent three topics on the railway vehicle technology which are expected to be put to practical use. The first one presents a simple way to reduce bending vibration of the carbody which worsens ride comfort. The second one introduces a numerical evaluation method of the damage of driver and carbody by a collision at level crossing, which can evaluate both the deformation of the carbody and the driver's injury quantitatively. The last one proposes a simple analysis method of energy consumption of railway vehicles which can be used as a tool to improve energy efficiency in train operation.