

The Results of the Recent Development of Vehicle Structure Technology

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In the fiscal year 2015, we grappled with around 300 research themes in RTRI. Among them, there are around 45 themes regarding the rolling stocks, which include a wide range of the themes, namely the practical themes such as the speedup of the trains and improving the riding comfort, the applied research such as running stability and crash-worthiness of the vehicle, and finally, the basic research such as elucidating the mechanisms of wear of the wheel.

Here, I introduce three out of these themes: “A new type bogie for reducing the risk of derailment” , “Safety evaluation method of carbody for reducing passenger injury in the event of level crossing accident” and “Small and low-cost pneumatic centering cylinder for tilting vehicles” .