

## **The Trends of Recent Researches on Main Circuit and Traction System for Railway Vehicles**

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The progress of electrical railway vehicles traction system has been made mainly in the field of main electric circuit, the system has been developed to AVAF (Adjustable Voltage Adjustable Frequency) inverter method from the resistor control method via the field added excitation control method. On the other hand, in the 2000s, the study of battery technology applied to railway vehicles as the energy saving technology has started. This report introduces what kinds of researches and developments have been carried out relating to this progress and the trends of the recent researches on the main circuit and traction system for railway vehicles.