

**The Analysis of the Adhesion Characteristics on Train Set  
by Monitoring Data of the Service Train**

Shin-ichi SAGA      Atsushi TSURUSAKI

On recent commuter trains, on-board vehicle monitoring device performs the state monitoring of regenerative factor for energy-saving purpose. Such monitored data includes pertinent information on main power converter and brake control device upon applying powering and braking. Such a huge volume of information is effectively usable. In the conventional measurement technique of adhesion coefficient, it was hard to investigate the adhesion characteristic on the train set because it is capable of measuring at only a specific axle. Therefore, we have investigated the adhesion characteristic by on-board vehicle monitor data. Consequently, we have clarified the adhesion characteristic on the commercial train set. We have introduced these adhesion characteristics herein.