

Development of Deflector to Decrease Snow-Accretion to Truck of a Vehicle

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We devised a method to reduce snow accretion to a truck of train by modifying a part of the form of a vehicle. We installed a deflector that can reduce the amount of snow from the side of the train body into the truck. By wind tunnel tests and numerical simulation, we confirmed that the deflector could change the direction of the flow of air on the side of the train body. Further, by the wind tunnel test using snow particles, we found out that the deflector could decrease the flux of snow particle flowing into the truck.