

Method of Predicting the Snow Accretion Amount on Train Bogies in Consideration of Snow Properties on the Track

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Trains operating in snowy areas have snow accretions on their bogies. When the snow falls off the car, it might damage ground facilities. To prevent such damage, snow removing operations are performed at stations. We developed a method of predicting the snow accretion amount in the following steps. Firstly snow properties on the railway track was estimated from climatic conditions, secondly the amount of flying snow caused by train passing according to the snow properties and the train speed was estimated. Finally we predicted the snow accretion amount from the amount of flying snow.