

An Estimation Method of the Probability that A Train Encounter the Gust in An Operating Section

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The number of the train accidents due to strong gust has tendency of decreasing since 1872. Especially the number of accidents per train kilometer has remarkably decreased to 1/100 in 100 years. The decline of the number of the accidents is considered to be due to an effect of the regulation of train operation. It is possible that the probability of the train encounter with the critical wind velocity is reduced by the train operation suspension for certain minutes in a certain section. This paper introduces a method of calculation of the probability that encounters the critical wind speed in the case where the train follows the operation regulation rule strictly.