

UDC

629.45.023.14:625.032.4:

534.083

JIS

JAPANESE INDUSTRIAL STANDARD

Vibration characteristics of railway
rolling stock--Measuring methods

JIS E 4023-1990

Translation without guarantee
In the event of any doubt arising, the original
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Translated

by

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Vibration characteristics of railway
rolling stock—Measuring methods

1. Scope

This Japanese industrial standard specifies the measuring methods of vibration characteristics such as vibration acceleration, frequency, etc. in the car body of passenger-carrying cars during operation.

- Remarks:
1. The passenger-carrying cars specified in this standard shall be mainly the passenger carrying electric car, passenger-carrying internal combustion railcar and passenger car for ordinary railway as well as the rolling stocks to be used for suspended type railway, straddled type railway and guide rail type railway.
 2. The applicable standard for this standard is shown in the following.
JIS E 4001 glossary of terms for railway rolling stock
 3. The units and numerical values given in brackets { } in this standard are in accordance with the traditional system of units and are appended for informative reference.

2. Definitions

For the purpose of this standard, the following definitions apply. Other terms and definitions are given in JIS E 4001.

- (1) Steady acceleration in lateral direction In the case where the rolling stock runs through a curved section, the component parallel to car body floor of the acceleration in lateral direction generated steadily at the circular curved part. In the case where the inclination angle of the car body is small, it may be represented by formula (1) approximately as shown in Fig. 1.