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**Crashworthiness requirements and verification for urban rail
transit vehicles**

城市轨道交通车辆耐撞性要求及验证

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Urban rail transit vehicle crashworthiness requirements and verification

1 Scope

This document specifies the crashworthiness design classification, typical collision scenarios, passive safety Requirements and crashworthiness verification.

This document applies to urban rail transit vehicles with steel wheel and steel rail systems, including subway vehicles, urban rapid rail vehicles, light rail vehicles and Tram.

2 Normative references

ISO 6487

3 Terms and definitions

The terms and definitions defined in CJ/T 353-2010, TB/T 3500-2018 and TB/T 3453.3-2016 and the following terms and definitions apply This document.

3.1 Passive safety

Adopt relevant systems or measures to reduce the impact of collision accidents. [Source. TB/T 3500-2018, 2.1]

3.2 Crashworthiness

The ability of a vehicle to absorb the energy of an impact in a controlled manner, mitigating the consequences of an impact and reducing the risk of injury to the occupants.

[Source. TB/T 3500-2018, 2.2, modified]

3.3 Collision scenario

Collision conditions specified for evaluating the crashworthiness of urban rail transit vehicles.

[Source. TB/T 3500-2018, 2.3, modified]

3.4 Overriding

The phenomenon in which one vehicle climbs onto another vehicle when a collision occurs.

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