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Maglev power technology - Vocabulary

磁悬浮动力技术 术语

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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Magnetic levitation power technology terminology

1 Scope

This document defines the basic and general applications of magnetic levitation power technology, magnetic levitation bearings for rotating machinery, and magnetic levitation supports and guides for transport equipment.

The main nouns, terms and definitions involved in the system.

This document applies to the formulation and revision of standards, the preparation of technical documents, the compilation and translation of professional technical materials for magnetic levitation power technology, and related matters.

Related to research, design, production, testing, application, evaluation, trade, service and management, etc.

2 Normative references

This document has no normative references.

3.1 magnetic field

The components of an electromagnetic field, characterized by magnetic field strength H and magnetic flux density B .

[Source. GB/T 2900.60-2002, 121.11.69]

3.2 magnetic force

The force determined by the spatial position of the magnetic field.

3.3 magnet

Materials or substances that can generate magnetic fields.

3.4 permanent magnet

permanent magnets A magnet that generates a magnetic field through its inherent magnetization.

Note. Permanent magnets do not require an external current source.

[Source. GB/T 2900.1-2008, 3.3.121]

3.5 Electromagnet

A magnet whose magnetic field is mainly generated by electric current.

[Source. GB/T 2900.1-2008, 3.3.122, with modifications]

3.6

Magnets made using superconducting materials.