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Dual electro-dynamic shakers simultaneous vibration testing system

电动振动台双台并激振动试验系统

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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.

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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This document was drafted by: Suzhou Sushi Testing Group Co., Ltd., Guangzhou University, Aerospace Science and Industry Defense Technology Research and Test Center, Beijing University of Aeronautics and Astronautics, Shenyang University of Technology, Dalian Zhiding Technology Co., Ltd., and China Machinery Testing Equipment Co., Ltd.

The main drafters of this document are: Zhang Leilei, Xu Zhonggen, Wang Gang, Yao Jinyong, Zhao Haining, Zhang Zhaoyu and Ren Xia.

Electric vibration table dual-stage parallel excitation vibration test system

1 Scope

This document specifies the technical requirements, inspection rules, marking, packaging, transportation and storage of the electric vibration table double-table parallel excitation vibration test system.

The inspection method of the double-stage parallel-excitation vibration test system of the electrodynamic shaker is described.

This document applies to the manufacture of a dual-stage parallel-excitation vibration test system for electric vibration tables (hereinafter referred to as the "dual-stage system").

The electric vibration test system consisting of multiple parallel-excited devices in the same direction shall be implemented for reference.

2 Normative references

GB/T 191

GB/T 2298

GB/T 2611-2022

GB/T 5226.1-2019

GB/T 13310-2007

JJG948-2018

3 Terms and definitions

The terms and definitions defined in GB/T 2298 and the following apply to this document.

3.1 test

Two uniaxial electric vibration tables of the same specification and model are used to perform vibrations in the same axial direction and in the same direction at different positions of the specimen.

3.2

A vibration transmission mechanism is used to eliminate or reduce the influence of the coupled motion of the dual vibrations on the test.

3.3

The superposition of the maximum sinusoidal thrusts of the two uniaxial vibration tables that make up the dual-table system.

3.4

The superposition of the maximum random thrusts of the two uniaxial vibration tables that make up the dual-table system.