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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 15463-2018

Replacing GB/T 15463-2008

Electrostatic safety terminology

静电安全术语

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Preview: page 1 of 4 shown, 57 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-15463-2018

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Table of Contents

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 15463-2008 "Electrostatic Safety Terms". Compared with GB/T 15463-2008, this standard is within the main technology

Changes in volume are as follows.

--- Modify the scope (see Chapter 1);

--- Removed normative references. References cited in the standard are included in the reference (see references,.2008 edition).

--- Chapter 3 of the.2008 edition was revised to chapter 2;

--- The term "line charge density" "surface charge density" "bulk charge density" "surface resistance" "volume resistance" "resistivity" "surface resistance

The rate "volume resistivity" is adjusted to Chapter 4 (see 4.1 to 4.5, 4.16, 4.21, 4.22,.2008 version 3.13, 3.14, 3.15,

3.32, 3.33, 3.35, 3.36, 3.37);

--- Modify the terms "electrostatic" "charge" "bound charge" "free charge" "charge density" "dielectric" "electricity" "Coulomb's law"

(See 2.2, 2.13, 2.14, 2.15, 2.16, 2.18, 2.21, 2.33, 3.2, 3.9, 3.10, 3.11, 3.12, 3.17,.2008, 3.18, 3.19);

--- Removed the term "system resistance" (version 3.34 of the.2008 edition);

Preview: page 2 of 4 shown, 57 in the full document. Complete English PDF, instant download:
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--- Chapters 4 and 5 of the.2008 edition are merged into Chapter 3;

--- Added the term "frictional charged voltage" "electrostatic (discharge) sensitivity" "electrostatic (discharge) immunity" "triboelectric effect" (see 3.9, 3.44, 3.45, 3.52);

--- The terms "electrostatic discharge", "glow discharge", "dielectric breakdown", "contact potential difference", "electrostatic neutralization" and "ion current" have been modified (see

3.19, 3.25, 3.32, 3.39, 3.46, 3.51, 5.1, 5.6, 5.13, 4.25, 5.2) of the.2008 edition;

--- Removed the term "electrostatic sensitivity" (2008 version 5.19);

--- Chapter 7 of the.2008 edition was reorganized into Chapter 4;

1 Scope

This standard defines the terms used in the field of electrostatic safety, including basic concepts, electrostatic charging, accumulation and dissipation, electrostatic measurement and inspection

Measurement, electrostatic safety, disaster prevention, and electrostatic protection.

This standard applies to the field of science and technology related to electrostatic safety.

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2.1 Static electrostatic

In a relatively static charge (2.13). Static electricity can be caused by contact and separation of substances, electrostatic induction (2.27), dielectric polarization and charged particles

Physical processes such as attachment.

2.2 Electrostatics electrostatics

Study the discipline of phenomena related to the electrostatic field (2.25) in the absence of current.

[GB/T 2900.1-2008, 3.1.53]

2.3 Electrostatic phenomenon electrostaticphenomenon

Electrostatic discharge (3.19), electrostatic induction (2.27), dielectric polarization, and static due to the electrostatic field (2.25) action of the electrified body (2.4)

The collective name for various physical phenomena such as the effect of electricity (2.28).

2.4 Electrified body

The number of positive and negative charges is not equal to the object or system that

Preview: page 3 of 4 shown, 57 in the full document. Complete English PDF, instant download:
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shows electrical characteristics to the outside world.

2.5 Electrified area

The static electricity (2.1) site accumulates on the electrified body (2.4).

2.6 Charge on the charged body chargeonachargedbody

In the charged body (2.4), the algebraic sum of the total amount of positive charges and the total amount of negative charges.

2.7 Conductor capacitance of capacitanceofaconductor

The ratio of the conductor's charge (2.13) to its potential (2.22) is a constant, which is the conductor capacitance. It characterizes conductor charge Ability.

Note: Capacitance pull shows.

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