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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 13965-2010

Replacing GB/T 13965-1992

Instrument components - Vocabulary

仪表元器件 术语

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Foreword

This standard replaces GB/T 13965-1992 "instrumentation components of the term."

This standard compared with GB/T 13965-1992 main changes are as follows.

- a) the structure of the standard has been adjusted, the terminology into terminology and classification performance parameters of the term;
- b) In accordance with some new progress in instrumentation technology, the terms are appropriate instrumentation components added.

Hypoid gears hypoidgearpair Hypoid hypoidgear

Curve bevel gear curvedtoothbevelgear

Bevel gear spiralbevelgear

Parallel shaft gears gearpairwithparalelaxes

Cross shaft gears gearpairwithnon-intersectingaxes 2) increased 2.2.

Cumulative pitch deviation accumulatederroroverpitches

Tooth profile shape deviation toothprofileerror

Total helix deviation totalhelixerror

Helix form deviation helixprofileerror 3) increased 3.1.

Constant Spring constant force spring 4) increased 3.2.

Elastic Creep elastic creep 5) 4.2.1 added.

Silicon pressure-sensitive resistance element silicon piezoresistive force sensing element

Diffused silicon force sensing element diffused silicon force sensing element

Silicon capacitive force sensitive element silicon capacitive force sensing element

1 Scope

This standard specifies the instruments mechanical element, the elastic element, sensitive components, electromechanical components, electrical instruments, equipment and light display

Name, performance characteristics VII products and other aspects of the terms and definitions.

This standard applies to aspects of the production, use, research and teaching and other instrument components, and as a unified technical term basis.

2 mechanical components

2.1 mechanical components taxonomy terms

2.1.1 Mechanical components mechanical component

In a stream-based mechanical transformation or information technology systems, having individual functions, mechanical parts or components. It completed. Information

Transfer, conversion, feeling, moving parts bearing guide, showing the value to be measured, recorded, counted, coupling member, and damping, shock absorption, control, compensation And other functions.

2.1.2 Small module gear fine module gear

Law modulus less than or equal to 1mm gear.

2.1.3 Involute gear involute cylindrical gear

A cylindrical gear tooth profile available its end face is defined by a involute.

2.1.4 Cycloidal gear cycloidal gear

Tooth profile is accurate (or similar) cylindrical gear cycloid shape.

2.1.5 Watch gears watch gear

Also known as the modified cycloid profile gear.

The tooth surface is lower than the cycloid type tooth surface of the cylindrical surface, the inner tooth surfaces cycloid profile.

2.1.6 Spur gears cylindrical gear

Indexing surface of the cylindrical surface of the gear.

2.1.7 Spur Gear spur gear

Also known as spur gears or spur gears.

Cylindrical gear tooth line dividing the cylindrical surface straight bus.