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

GB/T 2900.77-2008

**Electrotechnical terminology -- Electrical and electronic
measurements and measuring instruments -- Part 1: General
terms relating to measurements**

电工术语 电工电子测量和仪器仪表 第1部分：测量的通用术语

(English Translation)

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Foreword

This is Part 77 GB/T 2900's.

This section identical with IEC 60050 (300-311). "International Electrotechnical Vocabulary Part 311 for electric and electronic measurements and instrumentation 2001 Score. generic term "measurement.

The term item number in this section and IEC 60050 (300-311).2001 consistent.

This part of the National Electrotechnical Terminology Standardization Technical Committee (SAC/TC232) and focal points.

This section is drafted. Mechanical Engineering Research Institute in the center of the Harbin Electrical Instrument, China Electronics Standardization Machine Productivity the, China Institute of Metrology.

1 Scope

This section provides general terms and definitions used in electrical and electronic measurement and instrumentation.

This section applies to the technical field of electric and electronic measurements and instrumentation related.

2 Normative references

The following documents contain provisions which, through reference to GB/T 2900 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

ISO , IEC et al, 1993 international measurement term (Vp IM) ISO , IEC et al. 1993 Measurement uncertainty expressed Guidelines (GUM)

3.1 Basic terms

311-01-01

Given a set of values \u200b\u200bto be measured. [!= Vp IM3.1]

Note 1: The term used for "uncertainty" approach.

Note 2: The center of this set of values \u200b\u200bis selected as the value of the measured values, and used to describe the uncertainty of their dispersion.

Note 3: The indicated value measurements and measuring instruments as well as calibrated correction amount and use a model to get about.

Note 4: If this set of values \u200b\u200bto be measured with the same measure is compatible with all other is that the set of values \u200b\u200bmay represent the value being measured.

Note 5: This group value and its uncertainty, is given only at a certain confidence level.

311-01-02

Associated with the measurement results of a parameter used to characterize reasonable given the dispersion of the measured values. [Vp IM3.9]

Note 1: The term used for "uncertainty" approach.

Note 2: This parameter can be a standard deviation (or a given multiple) or half the width of a given confidence interval. Defined in the GUM uncertainty obtained Different methods degrees.

Note 3: Measurement Uncertainty often made up of many components of the composition. Some components may be statistical distribution of a series of measurements to estimate and standard deviation Test table Shown. Other components may be used to estimate the probability of experience or other information based on the distribution, the standard deviation can also be expressed.

311-01-03

Specific quantity to be measured. [Vp IM2.6] 311-01-04 Consistent with the value assigned

to a specific amount. [Vp IM1.19]

Note 1: The term used for "true value" approach.

GB/T 2900.77-2008/IEC 60050 (300-311).2001