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

GB/T 16656.11-2010

Replacing GB/T 16656.11-1996

**Industrial automation systems and integration -- Product data
representation and exchange -- Part 11: Descriptive methods:
The EXPRESS language reference manual**

工业自动化系统与集成 产品数据表达与交换 第11部分：描述方法：EXPRESS语言参考手册

(English Translation)

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Foreword

It is a multi-part standard GB/T 16656 "Industrial automation systems and integration - Product data representation and exchange" ministries Points published separately. GB/T 16656 and the relevant portions of the composition of a plurality of sub-series, namely.

--- Part 1 to 19 of the provisions described methods;

Part --- 20 to 29 provides for implementation;

--- 30 to Part 39 specifies conformance testing methodology and framework;

Part --- 40 to 59 of the provisions of the Integrated generic resources;

--- Part 100 to 199 of the provisions of the integrated application resources;

--- Section 200 and Section 299 specifies the application protocol;

--- Section 300 to Section 399 defines the abstract test suite;

--- Section 400 and Section 499 provides for the application modules;

--- Section 500 and Section 599 provides for the application interpreted construct;

--- 1000 through the first part of 1999 provides for the application modules.

GB/T 16656 "Industrial automation systems and integration. Product data representation and exchange" has been released following 26 sections.

--- Part 1. Overview and fundamental principles;

--- Part 11. Description methods. EXPRESS language reference manual;

--- Part 21. Implementation methods. Clear text encoding of the exchange structure;

--- Part 31. Conformance testing methodology and framework. General concepts;

--- Part 32. Conformance testing methodology and framework. testing laboratory and the customer's requirements;

- Part 34. Conformance testing methodology and framework. Abstract test methods for application protocol implementations;
- Part 41. Integrated generic resources. product description and support principles;
- Part 42. Integrated generic resources. Geometric and topological representation;
- Part 43. Integrated generic resources. Representation structures;
- Part 44. Integrated generic resources. Product structure configuration;
- Part 45. Integrated generic resource. Materials;
- Part 46. Integrated generic resources. visual display;
- Part 47. Integrated generic resources. the strain tolerance;
- Part 49. Integrated generic resources. Process structure and properties;
- Part 101. Integrated application resource. Drawing;
- Part 105. Integrated application resource. Kinematics;
- Part 201. Application protocol. Explicit draughting;
- Part 202. Application protocol. Associative draughting;
- Part 203. Application protocol. Configuration controlled design;
- Part 501. Application interpreted construct. Based on the frame side;
- Part 502. Application interpreted construct. Shell-based wireframe;
- Part 503. Application interpreted construct. 2D wireframe geometry boundary;
- Part 513. Application interpreted construct. Basic boundary representation;
- Part 520. Application interpreted construct. Associative draughting elements;
- Part 1001. Application module. Appearance assignment;
- Part 1006. Application module. basal expression.

This section GB/T Part of 1,116,656.

This section identical with the international standard ISO 10303-11:2004 "Industrial automation and integration - Product data representation and cross in other Part 11. Description methods. EXPRESS language reference manual "(in English).

This Part replaces GB/T 16656.11-1996 "Industrial automation and integration - Product data representation and exchange - Part 11. Description Methods. EXPRESS language reference manual. " Section compared with the GB/T 16656.11-1996 main change this as follows.