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

GB/T 25742.2-2013

**Condition monitoring and diagnostics of machines -- Data
processing, communication and presentation -- Part 2: Data
processing**

机器状态监测与诊断 数据处理、通信与表示 第2部分：数据处理

(English Translation)

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Foreword

GB/T 25742 "machine condition monitoring and diagnostic data processing, communication and representation" consists of four parts.

- Part 1. General guidelines;
- Part 2. Data processing;
- Part 3. Communication requirements;
- Part 4. indicates requirements.

This part of GB/T 25742 Part 2.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20000.2-2009 given.

This section uses the translation method identical with ISO 13374-2:2007 (E) "machine condition monitoring and diagnostic data processing, communication and representation Part 2. Data processing. " the correspondence between the consistency of the international normative documents referenced in our country with the following documents.

--- GB/T 25742.1-2010 machine condition monitoring and diagnostic data processing, communication and representation - Part 1. General guidelines (ISO 13374-1:2003, IDT) this part of the National mechanical vibration, shock and condition monitoring Standardization Technical Committee (SAC/TC53) and focal points.

This standard was drafted. Zhejiang University, Hangzhou billion Constant Technology Co., Ltd., China Petroleum & Chemical Corporation Jiujiang Branch, southeast University, Southwest Jiaotong University.

Introduction

Currently, for a variety of machine condition monitoring and diagnostics (CM Plug and play under the Ministry of integration, this makes it difficult for system integration; at the same time, it is difficult to provide users with a unified state machine View. The purpose of this series of standards for open Condition monitoring and diagnostics (CM Configuration software allows a variety of machine condition monitoring data and information without the need for a specific platform, hardware-specific conditions can be treated, cross Change and display.

Machine condition monitoring and diagnostic data processing, Communication and representation - Part 2. Data Processing

1 Scope

This section GB/T 25742 gives an open condition monitoring and diagnostics (CM Mathematical Model of the need to comply with the requirements. Software design professionals need information model and data processing model to adequately describe the data at all Reasonable requirements of this section may be CM

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 25742.1-2010 machine condition monitoring and diagnostic data processing,

communication and representation - Part 1. General guidelines (ISO 13374-1.2003IDT)
ISO/IEC 14750:1999 Information technology - Open Distributed Processing - Interface
Definition Language

3.1 Overview

For a given system or application, information architecture describes all the data objects and their characteristics (or attributes), features data types, data Like the relationship between the reference data and data files. An open condition monitoring and diagnostics (CM Levels are described.

Figure 1 CM

3.2 Semantic definition of requirements

To facilitate understanding of the various parts, open condition monitoring and diagnostic information structure (CM use