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

GB/T 21007-2007

Surface chemical analysis -- Information formats

表面化学分析信息格式

(English Translation)

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Foreword

This standard is identical with ISO 14975:2000 "Surface chemical analysis - Information formats" (in English).

This standard is equivalent to translate ISO 14975:2000. For ease of use, this standard made the following editorial changes.

--- Use the decimal symbol instead of decimal symbol " , . " , " ;

--- Use the "standard" instead of "this International Standard." Appendix A of this standard and Appendix B is an informative annex.

This standard by the National Standardization Technical Committee microbeam analysis and focal points.

This standard was drafted. Institute of Metal Research.

Drafters of this standard. Gong along the East, Sun Aiqin, Mayon meeting, Yang snow, Zhang Bing, Song Xiaoping.

GB/T 21007-2007/ISO 14975:2000

Introduction

GB/T 19499-2004/ISO 14976:1998 provides a chemical analysis of surface data communication digital data transmission format.

As in many fields of science the importance of the database is growing, storing and manipulating data in a database of spectra becomes very necessary.

19499-2004/ISO 14976 GB/T .1998 structure suitable for transmission, but they are very different database operations and data communications.

GB/T 19499-2004/ISO 14976:1998 does not contain information for the database data manipulation is necessary to mention in this standard, Out of three format, which defines the information package. (1) the sample information, (2) calibration information and (3) data processing information. Their spectral database Data manipulation is important. The format must take into account the future compatibility. The format is designed to GB/T 19499-2004 /ISO 14976:1998 used in conjunction with software, to add this information in the package after the latter is designed to read the data still can be correctly Run, so this standard is GB/T 19499-2004/ISO 14976:1998 is compatible with and supplements.

When the defined text style selection criteria described in this data file, its purpose is important. In order to enable programmers to easily in the new software reliably format, you need to follow the shape MicrosoftWindows™ ".INI" file structure. Most modern count Computers have such a tool, which through the Windows application programming interface (WindowsApplicationProgrammingInter-face™) over a wide range of computer language to read and write this format.

GB/T 21007-2007/ISO 14975:2000 Surface chemical analysis - Information formats

1 Scope

This standard specifies a supplement GB/T 19499-2004/ISO 14976:1998 format for generating extensions and amendments surface Chemical analysis of the data transmission spectra database. This format is used in Auger electron spectroscopy (AES) and X-ray photoelectron spectroscopy (XPS) spectrum data.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 19499-2004 Surface chemical analysis - Data transfer format (ISO 14976:1998, IDT)

3 Terms and Definitions

The following terms and definitions apply to this standard.

It can be read back spectral data collection.

Step on the sample and (or) analyzer calibration and (or) information data processing steps necessary information and (or) to generate spectra database.

Spectral data for the information contained in the text to describe a set of rows.

4 Symbols and abbreviated terms

CAS --- Chemical Abstracts Service (Chemical AbstractsService).

DTF --- data format (as in 19499-2004 ISO GB/T /14976. specified in 1998).

IUPAC --- International Union of Pure and Applied Chemistry
(InternationalUnionofPureandAppliedChemistry).

N/A --- NA (notapplicable).

5.1 General

Information is inserted into the DTF comment lines or in the form of add-in packages in DTF. As a result, the existing DTF can not add repair as the carrier to change the packet and is used; these packages occupy DTF experiments in the comment line or block comment line, or in the DTF Outside the building block.

In this structure, those who use the packet format reading program can look for identifiers that may be present in all applicable Experimental comment line data blocks to be applicable only exist in a data block data block comment line, or exist outside of DTF. Present the program will keep reading these packages to readers interpreted as a comment and ignored them.

This standard describes the "sample information format", "Calibration information format" and "data processing format" packets. It is a modular GB/T 21007-2007/ISO 14975:2000