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Non-destructive testing—Eddy current testing—Part 2: Instrument characteristics and verification

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Contents

Page

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by The Japanese Society for Nondestructive Inspection (JSNDI)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently **JIS Z 2314**:1991 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

JIS Z 2316 series consists of the following 4 parts under the general title "*Nondestructive testing—Eddy current testing*":

Part 1: General principles

Part 2: Instrument characteristics and verification

Part 3: Probe characteristics and verification

Part 4: System characteristics and verification

Non-destructive testing— Eddy current testing— Part 2: Instrument characteristics and verification

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 15548-1** published in 2008 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard identifies the functional characteristics of general-purpose eddy current instruments and provides methods for its measurement and verification.

The evaluation of these characteristics permits a well-defined description and comparability of the eddy current instrument. By careful choice of the necessary characteristics, a consistent and effective eddy current test system can be designed for a specific application.

The principles of this Standard can be applied to accessories of eddy current instrument.

This Standard does not give the extent of verification nor acceptance criteria for the characteristics, which are given in the application documents [1)].

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 15548-1:2008 *Non-destructive testing—Equipment for eddy current examination—Part 1: Instrument characteristics and verification* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

Note [1)] Application document refers to a document made between the user and the manufacturer.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 1002 *Glossary of terms used in electronic measuring apparatus*

JIS Z 2300 *Terms and definitions of nondestructive testing*