INTERNATIONAL STANDARD ISO 8041:2005
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Human response to vibration — Measuring instrumentation

TECHNICAL CORRIGENDUM 1

Réponse des individus aux vibrations — Appareillage de mesure

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 8041:2005 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 3, *Use and calibration of vibration and shock measuring instruments*.

Page 26, 12.7, after Equation (15)

Add:

"NOTE The error, ε, is a relative measure, i.e. a relative error expressed as percentage."

Page 30, 12.1.1, after Table 15

Add:

"NOTE The errors, ε, mentioned in 12.11 are relative measures, i.e. relative errors expressed as percentages."

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Page 30, 12.11.2, paragraph 4

Replace with:

"The frequency-reponse error at frequency f, $\varepsilon(f)$, expressed as a percentage, is given by Equation (16):

$$\varepsilon(f) = \frac{a_{\text{ind}}(f) - a_{\text{in}} w(f)}{a_{\text{in}} w(f)} \times 100 \qquad (16)$$

where $w(f)$ is the frequency-weighting factor at frequency f."

Page 31, 12.11.3, paragraph 4

Replace with:

"The electric component of the frequency-response error at frequency f, $\varepsilon_{\text{e}}(f)$, expressed as a percentage, is given by Equation (19):

$$\varepsilon_{\text{e}}(f) = \left[a_{\text{ind}} - \frac{u_{\text{in}}(f)}{S} w(f) \right] \Bigg/ \left[\frac{u_{\text{in}}(f)}{S} w(f) \right] \times 100 = \left[\frac{u_{\text{in}}(f_{\text{ref}})\, w(f_{\text{ref}})}{u_{\text{in}}(f)\, w(f)} - 1 \right] \times 100 \qquad (19)$$

where

$w(f)$ is the frequency-weighting factor at frequency f;

S is the sensitivity, given by Equation (20):

$$S = \frac{u_{\text{in}}(f_{\text{ref}})\, w(f_{\text{ref}})}{a_{\text{ind}}} \qquad (20)"$$

Page 41, 13.10.1, Note

Delete "NOTE", insert "NOTE 1".

Add the Note:

"NOTE 2 The errors, ε, mentioned in 13.10 are relative measures, i.e. relative errors expressed as percentages."