



Human response to vibration — Measuring instrumentation

TECHNICAL CORRIGENDUM 1

Réponse des individus aux vibrations — Appareillage de mesure

RECTIFICATIF TECHNIQUE 1

Technical corrigendum 1 to International Standard ISO 8041:1990 was prepared by Technical Committee ISO/TC 108, Mechanical vibration and shock, Sub-Committee SC 3, Use and calibration of vibration and shock measuring instruments.

(standards.iteh.ai)

Page ii

Foreword

Change last sentence to read:

"Annexes A to D of this International Standard are for information only."

Page 2

Subclause 3.3.2, equation (2).

Add the unit "dB" at the end of the equation.

Page 3

Subclause 4.3.2

Add "and/or" after item a).

Page 16

Subclause 9.2

Change item 25) to read:

"The electrical impedance which for testing purposes shall be substituted for the transducer."

Page 24

Annex D

Clause D.1

In the definition of a_{p_0} , add "if power is measured" at the end of the phrase in parentheses.

Clauses D.1 and D.2

Change " t_0 " to " t_0 " in eight places.

Clause D.2

Replace the first formula with:

$$a_{\text{rms}, \tau}(t_0) = \left[\frac{1}{\tau} \int_0^{t_0} a^2(t) \exp\left(\frac{t-t_0}{\tau}\right) dt \right]^{1/2}$$

Replace the second formula with:

$$L_{\text{rms}, \tau}(t_0) = 10 \lg \left[\frac{1}{\tau} \int_0^{t_0} \frac{a^2(t)}{a_0^2} \exp\left(\frac{t-t_0}{\tau}\right) dt \right] \text{ dB}$$

Replace the third formula with:

$$a_{\text{eq}, \tau} = a_0 \left[\sum_{i=1}^n \frac{t_i}{T} 10^{0,1L_i} \right]^{1/2}$$

Replace the fifth formula with:

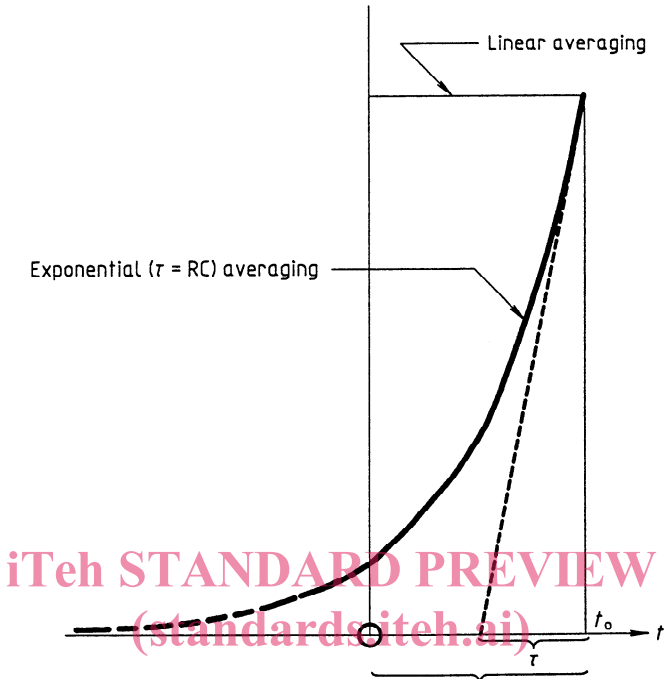
$$a_{\text{eq}, \tau} = a_0 \left[\sum_{i=1}^n \frac{p_i}{100 \%} 10^{0,1L_i} \right]^{1/2}$$

Replace the sixth formula with:

$$\sum_{i=1}^n p_i = 100 \%$$

Figure D.1

Replace the existing figure with:



ISO 8041:1990/Cor.1:1993
Averaging time
<https://standards.iteh.ai/catalog/standards/sist/c5964a04-1bc3-40fd-9443-9d120c6317bf/iso-8041-1990-cor-1-1993>

h STANDARD PREVIEW (standards.iteh.ai)

This page intentionally left blank

ISO 8041:1990/Cor 1:1993

standards.iteh.ai/catalog/standards/sist/c5964a04-1bc3-4
9d120c6317bf/iso-8041-1990-cor-1-1993