INTERNATIONAL STANDARD ISO 8041:1990
TECHNICAL CORRIGENDUM 1

Published 1993-06-15

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 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.*

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."

UDC No: 534.1.08:612.014.45 **Ref. No. ISO 8041:1990/Cor.1:1993(E)**

Descriptors: vibration, human body, frequency responses, tests, vibration tests, test equipment, measuring instruments.

Printed in Switzerland

Page 24

Annex D

Clause D.1

In the definition of a_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_o" in eight places.

Clause D.2

Replace the first formula with:

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

Replace the second formula with:

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

Replace the third formula with:

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

Replace the fifth formula with:

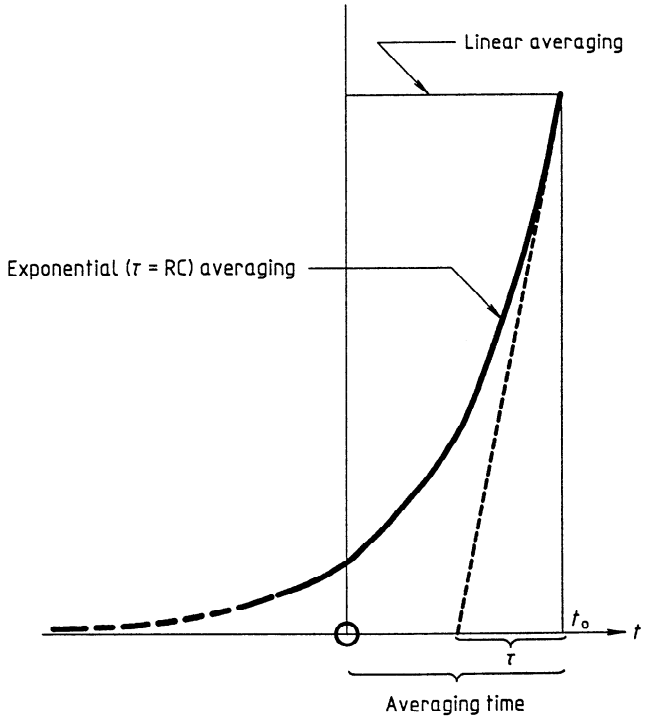
$$a_{\mathrm{eq},\,T} = a_0\left[\sum_{i=1}^{n}\frac{p_i}{100\ \%}10^{0{,}1L_i}\right]^{1/2}$$

Replace the sixth formula with:

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

Figure D.1

Replace the existing figure with:



This page intentionally left blank