INTERNATIONAL STANDARD ISO 18431-2:2004
TECHNICAL CORRIGENDUM 1

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

Mechanical vibration and shock — Signal processing —

Part 2:
Time domain windows for Fourier Transform analysis

TECHNICAL CORRIGENDUM 1

Vibrations et chocs mécaniques — Traitement du signal —

Partie 2: Fenêtres des domaines temporels pour analyse par transformation de Fourier

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 18431-2:2004 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*

Page 2, Table 1, column 2

The values are now expressed to one place of decimals. A corrected version of Table 1 appears overleaf.

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Table 1 — Window properties

Window type	Highest sidelobe dB	Sidelobe rolloff dB/decade	Noise bandwidth No. of lines [a]	Maximum amplitude error dB
Hanning	−31,5	−60	1,50	1,4
Flat-top	−93,0	~0	3,77	< 0,01
Rectangular	−13,3	−20	1,00	3,9

[a] Relative to line spacing.

Page 3, Equation (2) and definition of its first variable

Delete "ω" (omega), insert "w"; delete "ν" (nu), insert "n". The new version then reads:

$$w(n) = 1 - \cos(2\pi n/N) \tag{2}$$

where

$$n = 0, 1, \ldots N - 1$$

Page 3, Equation (3) and definitions of its coefficients

Modify the format of the figures associated with the a coefficients as follows:

$$w(n) = 1 + a_1\cos(2\pi n/N) + a_2\cos(4\pi n/N) + a_3\cos(6\pi n/N) + a_4\cos(8\pi n/N) \tag{3}$$

$a_1 = -1{,}932\ 617\ 19$

$a_2 = +1{,}286\ 132\ 81$

$a_3 = -0{,}387\ 695\ 31$

$a_4 = +0{,}032\ 226\ 56$