AMENDMENT NO. 1   SEPTEMBER 2024

TO

IS/ISO 18431-1 : 2005 MECHANICAL VIBRATION AND SHOCK — SIGNAL PROCESSING

PART 1 GENERAL INTRODUCTION

This Amendment No. 1 is identical to Technical Corrigendum No. 1 of ISO 18431-1 : 2005 'Mechanical vibration and shock — Signal processing — Part 1: General introduction' issued by International Organization for Standardization.

Price Group 2

TECHNICAL CORRIGENDUM 1

Vibrations et chocs mécaniques — Traitement du signal —

Partie 1: Introduction générale

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 18431-1:2005 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*.

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Page 10, 7.2.3.3, Equation (9)

Delete the existing text and insert

$$v_x = \frac{1}{N} \sum_{n=0}^{N-1} \left| x(n) - \bar{x} \right|^2 \qquad\qquad (9)$$

Page 10, 7.2.3.3, Equation (10)

Delete the existing text and insert

$$v_x(n) = \frac{1}{K} \sum_{k=0}^{K-1} \left| x(n-k) - \overline{x(n)} \right|^2 \tag{10}$$

Page 10, 7.2.3.3, Equation (11)

Delete the existing text and insert

$$v_x(n) = \frac{1}{I} \sum_{i=0}^{I-1} \frac{1}{K} \sum_{k=0}^{K-1} \left| x_i(n-k) - \overline{x(n)} \right|^2 \tag{11}$$

Page 17, 7.4.3, paragraph 1

Delete "ISO 18341-3", insert "ISO 18431-3".

(MED 28)