INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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IEC 60404-16
Edition 1.0 2018-03

MAGNETIC MATERIALS –

Part 16: Methods of measurement of the magnetic properties of Fe-based amorphous strip by means of a single sheet tester

IEC 60404-16
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MATÉRIAUX MAGNÉTIQUES –

Partie 16: Méthodes de mesure des propriétés magnétiques des bandes en alliage amorphe à base de fer à l'aide de l'essai sur tôle unique

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections portant sur la version française figurent après le texte anglais.

Replace Formula (2) with the following new formula:

$$J(t) = \frac{1}{N_2 A}\left\{\int_0^t U_2(\tau)\mathrm{d}\,\tau - \frac{1}{T}\int_0^T\left(\int_0^t U_2(\tau)\mathrm{d}\,\tau\right)\mathrm{d}\,t\right\} \quad (2)$$

*Add, after Formula (2), at the end of the paragraph beginning with "*where*", the following line:*

τ is an auxiliary time variable.

Replace Formula (3) with the following new formula:

$$H(t) = \frac{1}{\mu_0\left(N_\mathrm{H} A_\mathrm{H}\right)}\left\{\int_0^t U_\mathrm{H}(\tau)\mathrm{d}\,\tau - \frac{1}{T}\int_0^T\left(\int_0^t U_\mathrm{H}(\tau)\mathrm{d}\,\tau\right)\mathrm{d}\,t\right\} \quad (3)$$

*Add, after Formula (3), at the end of the paragraph beginning with "*where*", the following line:*

τ is an auxiliary time variable.

Replace Formula (B.4) and the existing line of text below it with the following two new formulas and the new text between them:

$$h_j = h'_j - \frac{1}{n}\sum_{k=0}^{n-1} h'_k \tag{B.4}$$

The second term of Formula (B.4) is the average over the length of a period which compensates for the integration constant. The signal h'_j is the result of the integration of the digitalized voltage measured at the H-coil which includes the integration constant and is to be calculated as follows:

$$h'_j = \frac{1}{\mu_0 f_s (N_H A_H)} \sum_{k=0}^{j} u_{Hk} \tag{B.4A}$$

Replace Formula (B.5) and the line text before it with the following new line text and new formula:

The magnetic polarization $J(t)$ can be calculated by using

$$J(t) = \frac{1}{N_2 A}\left\{\int_0^t U_2(\tau)\,\mathrm{d}\tau - \frac{1}{T}\int_0^T \left(\int_0^t U_2(\tau)\,\mathrm{d}\tau\right)\mathrm{d}t\right\} \tag{B.5}$$

A*dd the following text after the new Formula (B.5):*

where

τ is an auxiliary time variable.