Erratum

Erratum to "A Pulsed Current Inductive Method and Its Applications for Continuous Measurement of the Critical Current of Long Superconducting Tapes"

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In the above article [1], Table II is changed into

TABLE II
POLYNOMIAL FITTING PARAMETERS FOR $k(n)$

tape w	a_2	a_1	a_0	error
4 mm	1.337×10^{-4}	-1.125×10^{-2}	1.309	<0.2%
10 mm	1.238×10^{-4}	-1.041×10^{-2}	1.281	<0.2%

Fig. 6 is changed into

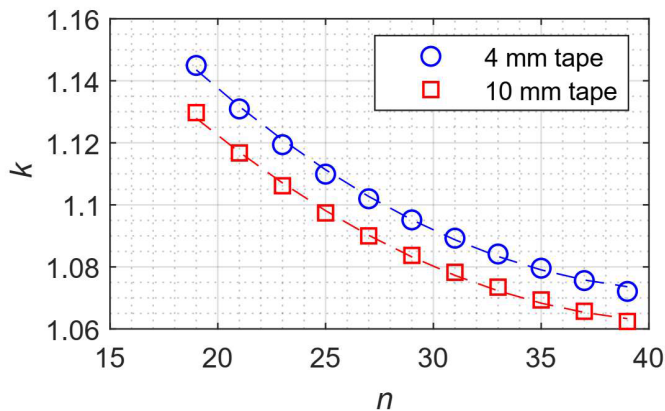
Fig. 6. Geometrical factor k in (10) as functions of n, given for 4- and 10-mm tapes, respectively. The dashed lines are parabolic fittings to the calculated points, with a relative deviation less than 0.2%.

Equation 12 is changed into

$$\frac{\Delta I_c}{I_c} = \left[\frac{1}{k} \frac{\partial k}{\partial n} + \frac{1}{n^2} \ln \frac{\mu_0 \mathrm{d}I/\mathrm{d}t}{E_c} \right] \Delta n.$$

And in page 7, "Taking a typical pulse with a 700-A peak and a 5-ms duration as an example, the relative error $\Delta I_c/I_c$ is less than $\Delta n\%$ over a wide range of n from 19 to 37 and less than $0.3\Delta n\%$ for n in the range of 25–35 for both 4- and 10-mm tapes." is changed into "Taking a typical pulse with a 700-A peak and a 5-ms duration as an example, the relative error $\Delta I_c/I_c$ is less than $1.6\Delta n\%$ over a wide range of n from 19 to 37 and less than $\Delta n\%$ for n in the range of 25–35 for both 4- and 10-mm tapes."

REFERENCES

[1] Y. Chen, Z. Jin, and X.-F. Li, "A pulsed current inductive method and its applications for continuous measurement of the critical current of long superconducting tapes," *IEEE Trans. Instrum. Meas.*, vol. 71, pp. 1–10, 2022.