

Erratum: “Dynamic Modeling and Experimental Validation of Eddy Current Dampers and Couplers” [Journal of Vibration and Acoustics, 2008, 130, pp. 021011-1–021011-9]

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Notes

- (1) The corrections are all linked to the quantity Ω that is absent in several equations within the paper.
- (2) The corrections are summarize below.

Page	Line equation	Original	Correction
021011-4	Line 291 Eq. (10)	$\phi_r = \phi_{r0}e^{-jpt} \quad \phi_{r0} = \frac{j\phi_{rs0}}{\omega_p - jp}$	$\phi_r = \phi_{r0}e^{-jp\Omega t}; \quad \phi_{r0} = \frac{j\Omega\phi_{rs0}}{\omega_p - jp\Omega}$
021011-4	Line 295 Eq. (11)	$T(\Omega) = \frac{c_0}{1 + (p)^2/\omega_p^2}$	$T(\Omega) = \frac{c_0}{1 + (p\Omega)^2/\omega_p^2}$
021011-4	Line 300	$(p \ll \omega_p)$	$(p\Omega \ll \omega_p)$
021011-4	Line 305	$T = c_0$	$T = c_0\Omega$
021011-4	Line 306	$p \gg \omega_p$	$p\Omega \gg \omega_p$
021011-5	Line 354 Eq. (18)	$T_{\max} = \frac{\omega_p}{p} \quad T_{\max} = \frac{c_{em}\omega_p}{2p} = \frac{k_{em}}{2p}$	$\Omega T_{\max} = \frac{\omega_p}{p}, \quad T_{\max} = \frac{c_{em}\omega_p}{2p} = \frac{k_{em}}{2p}$
021011-6	Line 463	$T = c_0$ (Eq. (12))	$T = c_0\Omega$ (Eq. (12))
021011-6	Line 500 Eq. (21)	$T_{\max} = \frac{c_0\omega_p}{2p} = 49.8 \text{ Nm}, \quad T_{\max} = \frac{\omega_p}{p} = 766 \text{ rpm}$	$T_{\max} = \frac{c_0\omega_p}{2p} = 49.8 \text{ Nm}, \quad \Omega T_{\max} = \frac{\omega_p}{p} = 766 \text{ rpm}$

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