

Erratum: “Experimental and Theoretical Investigation of Bouncing Vibrations of a Flying Head Slider in the Near-Contact Region” [Journal of Tribology, 2007, 129(2), pp. 246–255]

Kyosuke Ono and Masami Yamane

(1) Equation (4) should be rewritten as

$$c_f = 2\zeta_f \sqrt{Mk_f}, \quad c_r = 2\zeta_r \sqrt{Mk_r} \quad (4)$$

(2) In Table 1, the parameter values should be rewritten as follows:

$M = 1.918 \text{ mg}$ (effective mass including suspension is 1.25 times the slider mass (1.59 mg)).

$J = 2.971 \times 10^{-13} \text{ kg m}^2$ (effective moment of inertia including suspension is 1.36 times that of the slider only ($2.19 \times 10^{-13} \text{ kg m}^2$)).

$\zeta_f = 0.02$, $\zeta_r = 0.02$, and $f_{c0} = 0 \text{ mN}$.

The mass and moment of inertia of the slider are important parameters for determining the slider instability. If the mass and moment of inertia listed in Table 1 are used, the slider does not become unstable.

(3) Page 252, left-hand column, line 14 should read: “The air-bearing damping ratio in Eq. (4) is assumed to be 0.02.”