

Erratum: “Improved Analysis of Unstable Bouncing Vibration and Stabilizing Design of Flying Head Slider in Near-Contact Region”

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Kyosuke Ono and Masami Yamane

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

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

$J=2.971 \times 10^{-13}$ kg m² (effective moment of inertia including suspension is 1.36 times that of the slider only (2.19×10^{-13} kg m²)).

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 2 are used, the slider does not become unstable.

(2) The air-bearing damping coefficients, described on p. 70, in the right-hand column, line 10, are determined not by $c_f = 2\zeta_f \sqrt{Mk_{f0}}$ and $c_r = 2\zeta_r \sqrt{Mk_{r0}}$ but by $c_f = 2\zeta_f \sqrt{Mk_f}$ and $c_r = 2\zeta_r \sqrt{Mk_r}$.

(3) In the caption of Fig. 7, $r=2.4$ should be replaced with $r=2.6$, as described in the text. However, the difference between the calculated results for $r=2.4$ and $r=2.6$ is very small.

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