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Spacecraft Structures and Mechanisms

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Errata as of February 25, 1997

The following errata are provided to keep this volume as useful as possible. We would appreciate any other errors being reported to: Donna Klungle, Microcosm, Inc., 2377 Crenshaw Blvd., Suite 350, Torrance, CA 90501, Phone: (310) 320-0555, FAX: (310) 320-0252 or E-mail: bookproject@smad.com.

Page	First Printing Errata
41	Fig. 3.3: "1930 in/s" should be "1930 in/ s ² ."
65	Just above Eq. (3.5): "The heat load, q,..." should be "The incident heat load, q _I ...," Equation (3.5) should then read "q _I = F _I A." [Note: to obtain the absorbed heat load, q, multiply q _I by the surface absorptivity, (Chap. 10).]
66	Fig. 3.14: Change the symbol "A" (Albedo flux) to "F _a " for consistency. Similarly, "A _{max} " should be "F _{amax} ".
81	Fig. 4.3a: Reaction R _y should pass through point a
120	Eq. (5.49) applies when the force is applied directly to the mass. For base-driven loading, $H(f) = 1 + \frac{(f/f_n)^2}{[1 - (f/f_n)^2] + j2 (f/f_n)}$
162	Fig. 6.27: "K 0.0050 in" should be "K 0.0050 in ⁴ "
175	Second equation from the bottom, right-hand integral middle term in numerator: $-2R_b P(x - L/2)$ should read $-2R_b x P(x - L/2)$
180	Fig. 6.39: Top table, farthest right column "10 lb/in" should be "10 ³ lb/in."
212	Eq. (7.72): Units "lb · s ² /in ² " should be "lb · s ² /in."
220	The lower part of Eq. (7.95) should read $= \frac{ab}{cd^2 \sqrt{M_g}} [(1 - \cos c)(1 - \cos d)]$
220	The lower part of Eq. (7.96) should read $= \frac{\sqrt{4ab}}{cd^2 \sqrt{M_g}} \left[1 - \cos \frac{c}{2} \right] \left[1 - \cos \frac{d}{2} \right]$
222	Eq. (7.99) should read $W_{\ddot{z}}(f) = H(f) ^2 W_p(f)$ <p>Note that this equation provides the response spectral density in units of (in/s²)²/Hz. To get g²/Hz, divide Eq. (7.99) by (386.1 in/s²)²/g².</p>
277	First Paragraph: "...stability factor, as discussed in Sec. 6.2, ..." should read "...stability factor, as discussed in Sec. 12.3 ...".
514	The equation used for fundamental frequency, f _n , is in a different form than the one in Table 7.1. Here, m is the total mass whereas in Table 7.1 m is mass per unit length. The equations are equivalent once this distinction is made.
693	Caption to Fig. 19.10: "The kinetic torque equals..." should read "The acceleration torque equals..."
715	First row, first column: "Magnetic Pickup (position)" should read "Magnetic Pickup (position and rate)."
792	Lower note, 1st on left: Fig. B.1 "(see Fig. C.1)" should be "(see Fig. B.3)".

