Spacecraft Structures and Mechanisms: From Concept to Launch
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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 corrections or suggestions being reported to:

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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, α (Chap. 10).]
66	Fig. 3.14: Change the symbol "A" (Albedo flux) to "F_a" for consistency. Similarly, "A_{max}" should be "$F_{a max}$".
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, $$H(f) = 1 + \frac{(f/f_n)^2}{\left[1-(f/f_n)^2\right]+j2\zeta(f/f_n)}$$
162	Fig. 6.27: "K $\cong$ 0.0050 in" should be "K $\cong$ 0.0050 in^4"
175	Second equation from the bottom, right-hand integral middle term in numerator: $$-2R_B P(x-L/2) \text{ should read } -2R_B xP(x-L/2)$$
180	Fig. 6.39: Top table, farthest right column "10 lb/in" should be "10^3 lb/in."
212	Eq. (7.72): Units "$lb \cdot s^2/in^2$" should be "$lb \cdot s^2/in$."
220	The lower part of Eq. (7.95) should read $$= \frac{ab}{cd\pi^2\sqrt{M_g}}\left[(1-\cos c\pi)(1-\cos d\pi)\right]$$
220	The lower part of Eq. (7.96) should read $$= \frac{\sqrt{4}ab}{cd\pi^2\sqrt{M_g}}\left[\left(1-\cos\frac{c\pi}{2}\right)\left(1-\cos\frac{d\pi}{2}\right)\right]$$
222	Eq. (7.99) should read $$W_Z(f) = \left|H(f)\right|^2 W_p(f)$$ Note that this equation provides the response spectral density in units of $(in/s^2)^2/Hz$. To get g^2/Hz, divide Eq. (7.99) by $(386.1 \ in/s^2)^2/g^2$.
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)".