

Errata in *Orbital Mechanics 2nd edition* by Prussing & Conway

July, 2019

- p.6* In Eq. (1.15) the denominator should be a scalar r_{ij} .
- p.17* In Figure 1.6 (b) the aiming radius Δ should extend all the way to and intersect with the asymptote.
- p.22* In Problem 1.15 (c) "Sec. 5.6" should be "Sec. 6.6".
- p.23* In Problem 1.17 (c) T_{sar} should be T_{sat} .
- p.27* In first line of Eq. (2.3) delete the leading minus sign.
- p.35* The first two equations on the page define \mathbf{r}_o and \mathbf{v}_o . Subsequent to that they are mislabeled \bar{r}_o and \bar{v}_o .
- p.37* The symbol σ_o should not be bold-faced, it is a scalar.
- p.44* In Problem 2.15 after the equation the symbol σ_o should not be bold-faced, it is a scalar.
- p.54* In the eighth line of Example 3.1 replace "Example 2.1" by "Example 2.2".
- p.56-57* In Figs. 3.7, 3.8, 3.9 symbol $h\mathbf{v}/\mu$ should be $h\mathbf{v}/\mu$ (scalar h) to correspond to the LHS of Eq. (3.15).
- p.56* In Fig. 3.7 the velocity vector $h\mathbf{v}/\mu$ should extend from the origin of the $\mathbf{u}_e, \mathbf{u}_{ne}$ coordinate frame to the unit circle.
- p.59* Problem 3.11 should begin with the phrase "For a parabolic orbit"
- p.76* In Table 4.1 the "x dot" value for Body 3 should have a + sign, not a – sign.
- p.116* Denominator of Eq. (6.58) should be $\varepsilon_3 m_3 + m_L$. Following Eq. (6.60) the value of m_0 should be 22,433.
- p.139* 4th line should read "...off the surface of the earth or off any other large celestial body."
- p.142* Delete factor of $\frac{1}{2}$ in Eq. (8.5). Should be the same as Eq. (8.5) on p. 140.
- p.146* Equation (8.34) is called Edelbaum's equation, based on his analysis in Ref. 8.4.
- p.147* In Eq. (8.40) a_r should be Γ_r .
- p.151* In the last sentence of Section 8.7 "Eq. (25)" should be "Eq. (8.58)".
- p.182* The second word in the title of Section 10.3 should be "HILL".
- p.256* The vector symbol \mathbf{R} after Eq. (14.3) and in Eqs. (14.5) and (14.6) should be the scalar R .

p.258 In Eq. (14.12) the first term after the equal sign should be $2\dot{R}\hat{L}$