

Fundamentals of Astrodynamics and Applications 5th Ed

Consolidated Errata

March 2, 2023

This listing is an on-going document of corrections and clarifications encountered in the book. I appreciate any comments and questions you find. I use RHS for “right hand side” when referring to equations and N/A for not applicable. You may reach me at: dvallado@comspoc.com or davallado@gmail.com. Changes in equations are sometimes indicated by circles. I have tried to indicate changes that were present in previous editions as I know many of you have those copies. For many corrections in the 2nd edition, the first and second printings had identical pages, unless otherwise noted with the first printing pages being in parentheses. The exact description may differ, but it should get you close enough.

Page 180, Equation 3-40: (4th pg 178, 3rd pg 185, 2nd pg 183, 1st pg 64) The last term has an extra “0” and should be -0.053.

Page 409, bottom paragraphs: (4th pg 405, 3rd pg 405, 2nd pg 387/389, 1st pg 359) The last line of the next to the last paragraph should be y_o instead of \dot{y}_o . The reference to Fig. 6-30 on the next to the last line should be for Fig. 6-29.

Page 930-931, Alg 75 and 3rd paragraph from the bottom: (4th pg 913, 3rd pg 901, 2nd pg 833) The references for ζ should be for ECI, not ECEF. It should read “site vector in ECI” and not reference ECEF.

Page 952, Equation 11-60: The covariance term in the middle should be “+”.

Page 1046, Equation C-38: The equation for m should be the change in y over the change in x .