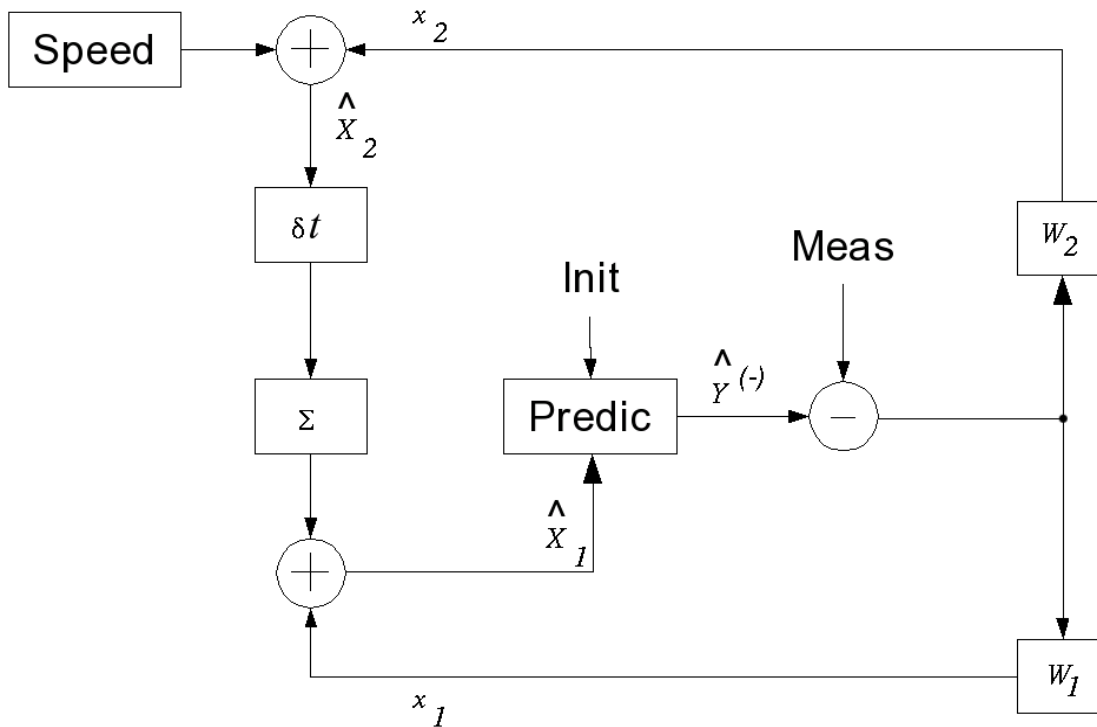


# ***GNSS Aided Navigation and Tracking***

## Errata / clarifications

Corrections are needed for two figures plus a few statements, cross-references, and mathematical symbols. In addition, a few areas would benefit from brief clarifications as well. All are listed, in sequential order, below.

page 12, Fig. 2.2: Estimated position includes adjustment as shown in corrected version below.



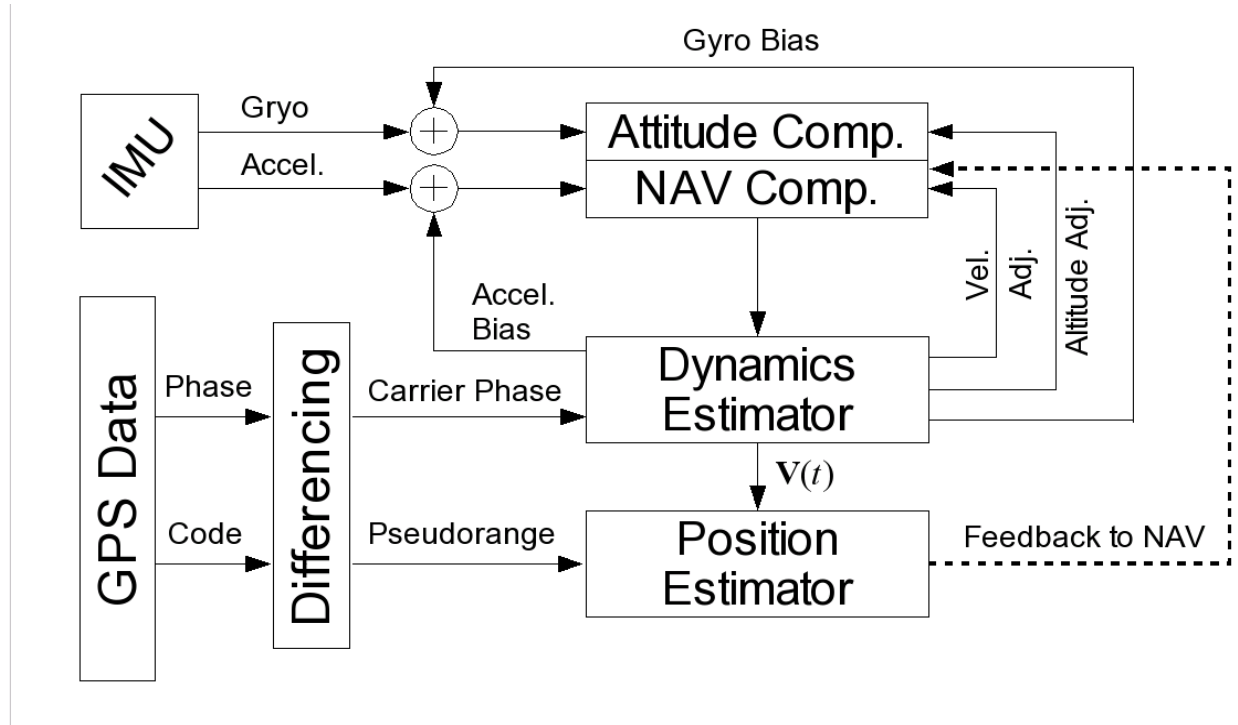
page 56: Detailed IMU specifications for motion-sensitive errors are understood to be needed only for usage in applications requiring long-term coast capability. For operations offering frequent updates (*e.g.*, including all test results shown in Chapter 8 !), the quasistatic short-term bias model – augmented by adjustment with conservative tolerances via Section 4.5.1 – effectively absorbs total resultant inertial instrument degradations.

page 68: At the end of the first line after Eq. (5.1), spacing correction produces a notation  $|\mathbf{H}_m|$ .

page 70: In the first line after Eq. (5.8), change Eq. numbers (1.4)–(1.6) to (2.59)–(2.61).

page 72: Delete the extraneous parenthese “)” that ends the third line up from the footnote.

page 76, Fig. 5.1 : Velocity and attitude adjustment labels are close to corresponding lines below.



page 77 : 2nd paragraph, line 2: “(both are **both** formulated here).”

page 82 : Text after *Sequentially uncorrelated rate observations without position* should refer to Section 4.3.2 rather than 3.3.2.

page 89 : Discussion at end, after the statement “(5-48) produces less **than** 1 cm at Elev > 11° “ is pessimistic. During flight, 1-sec phase residuals for one SV were acceptable all the way down to horizon, while rejection of its pseudorange data was imperative.

page 128, Eq. (6.49) : Replace  $\mathbf{R}_m$  by  $\mathbf{R}_m$ .

page 187 : For the second bulleted item, understand that one participant’s world view may differ from another, as long as each participant’s chosen reference is consistent within itself.

page 199 : Line 4 could be clearer by citing *position-dependent* measurements.

page 203 : “T” should be italicized (“*T*”) two lines above the figure.

page 221 : Delete period before “observations “ in second paragraph.

page 235 : Two lines above the table in Section I.2 – row vectors  $\mathbf{H}$ ,  $\mathbf{h}$ ,  $\mathbf{h}$ , and  $\mathbf{J}$ .

page 251 : Matrix “EF” in function `eprop` should not be multiplied by “dt” (computational results were unaffected because the time step was set equal to 1 sec.; the interval comparison noted on p. 247 was done with the simple program from [2] of that APPENDIX):

$$dY = TAP' * (EF*wadt + dt*x8(1:3)') + dt * (Y(3) * [V(1)/RE ws + V(2)/RE 0]');$$

Further scrutiny could produce additional corrections or clarifications. Not many are expected to arise, since this book is largely a coordination / integration of earlier manuscripts that underwent several rewrites (plus, in many cases, reviews for Journal publication).