

Chapter 8

Kalman Filtering

- Apparently, there is an AppendixJ with no space but I cannot find it again
- Page 276, 7 lines from the bottom, the line $H(k+1)^T K(y(k+1) - H(k+1)x(k+1|k))$. should be replaced with $H(k+1)^T K(y(k+1) - H(k+1)\hat{x}(k+1|k))$.
There was missing hat on the $x(k+1|k)$.
- Page 277, the $\Delta x = Kv$ below eq. 8.7 should read $\Delta x = H^T Kv$
- Page 285, eq. 8.30 has an extra right parenthesis
- Page 286, second line of eq. 8.34 $\triangleq Gx(k) + w(k)$ should be replaced with $\triangleq Hx(k) + w(k)$
- Page 287, fig 8.5 - bold circle is an ellipse but looks like a circle because the axes were scaled incorrectly.
- Page 291, the phrase
the process model for this robot nonlinear, i.e.,
is missing “is”.
- Page 297, eq. 8.48 $y(k)_i$ should be replaced with $y_i(k)$.
- on page 293, ninth line from the top $\chi_{ij}^2 = \nu_{ij} S_{ij}^{-1} \nu_{ij}^T$ should be replaced with $\chi_{ij}^2 = \nu_{ij}^T S_{ij}^{-1} \nu_{ij}$.