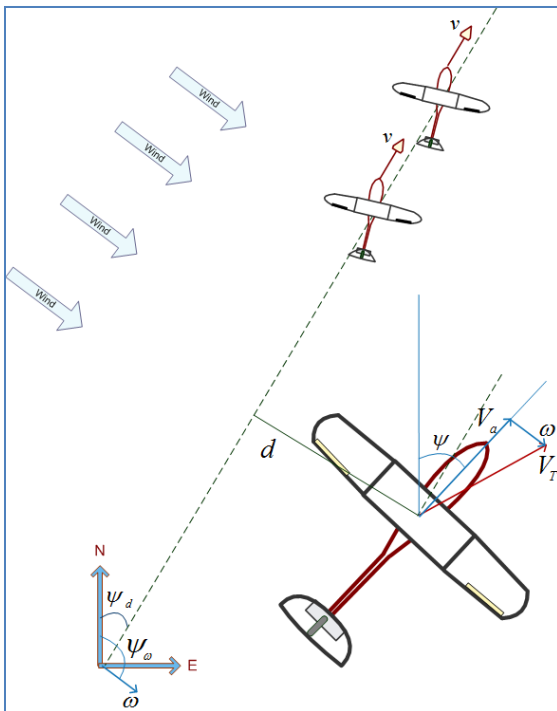


Straight-line Path Following in Windy Conditions

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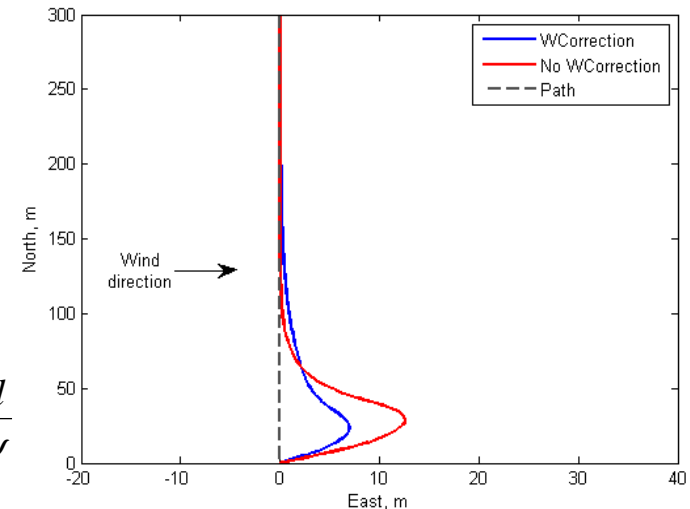


$$v_B^E = v_B + B_B \begin{bmatrix} W_N \\ W_E \end{bmatrix}$$

$$\dot{d} \equiv u \sin \psi + \omega \sin \psi_\omega$$

$$\psi = \psi_e + \psi_c$$

$$JN = \psi^2 \tan \psi - 3\dot{\psi} - \frac{3\dot{d} + d}{u \cos \psi}$$



Airplane response in presence of wind