General EOMs

**Assumption**:

Disturbance around TRIM:

**Assumption**: Straight, level, un-accelerated flight, no thrust, stability axis

Expanding Forces and Moments: (and rearranging)

Substitute eq for into eq for

Replace with

Linear, Decoupled EOMs:

We can remove some of the aerodynamic derivatives due to symmetry of the missile

For now:

Therefore

Roll Control

servo ***Savox sv 1232-mg***

