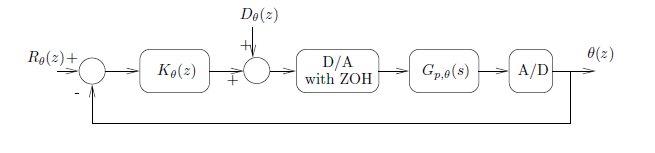
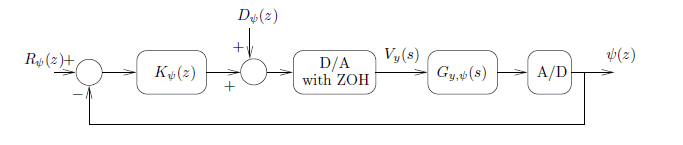
**Block Diagram for Pitch Channel:**



**Block Diagram for Yaw Channel:**



**Controller Specifications:**

1. Percentage of overshoot for step reference input ≤ 20%

2. Settling time of step response ≤ 18 sec

3. Rise time of step response ≤ 3 sec

4. Steady-state error for step reference input = 0

5. Steady-state output in response to step disturbance = 0

**Overall Closed-loop System:**

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