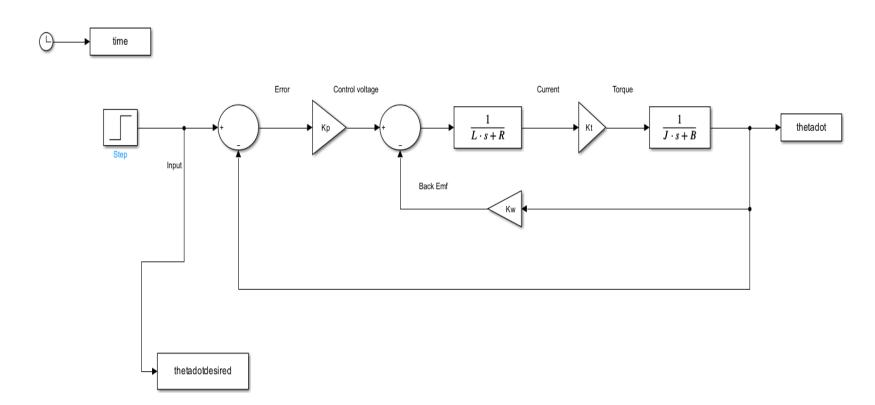
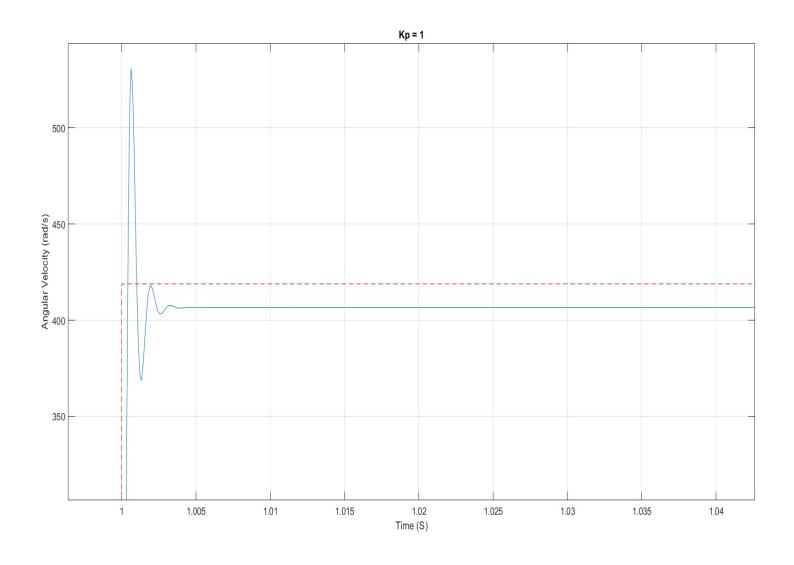
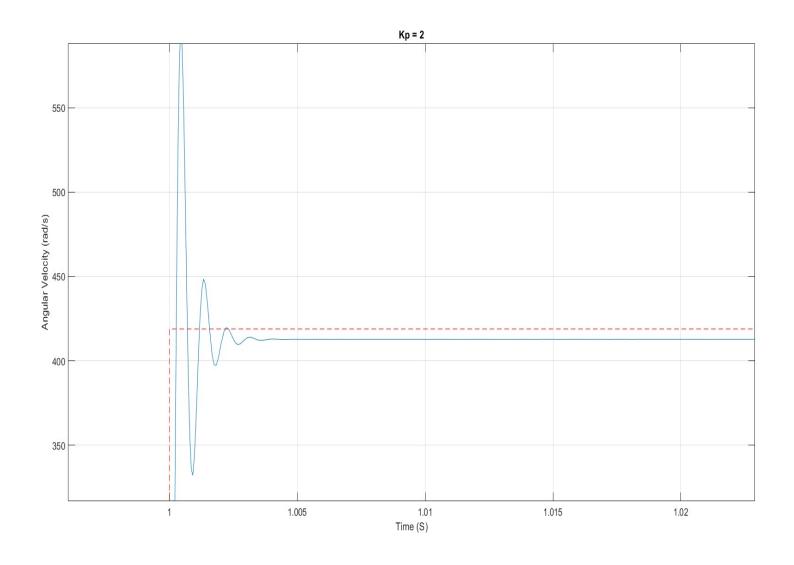
Mechatronics Assignment – Introduction to Simulink

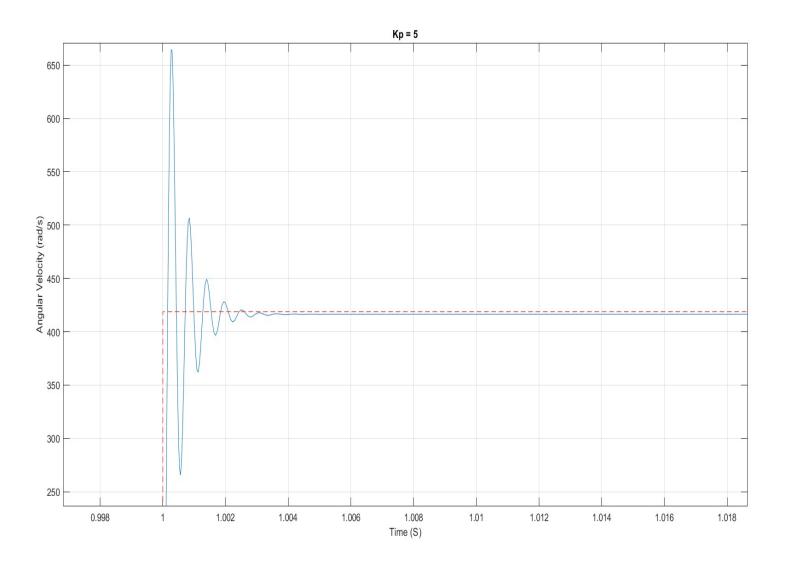
Simulink model 2nd order system based on controlling the velocity of a motor

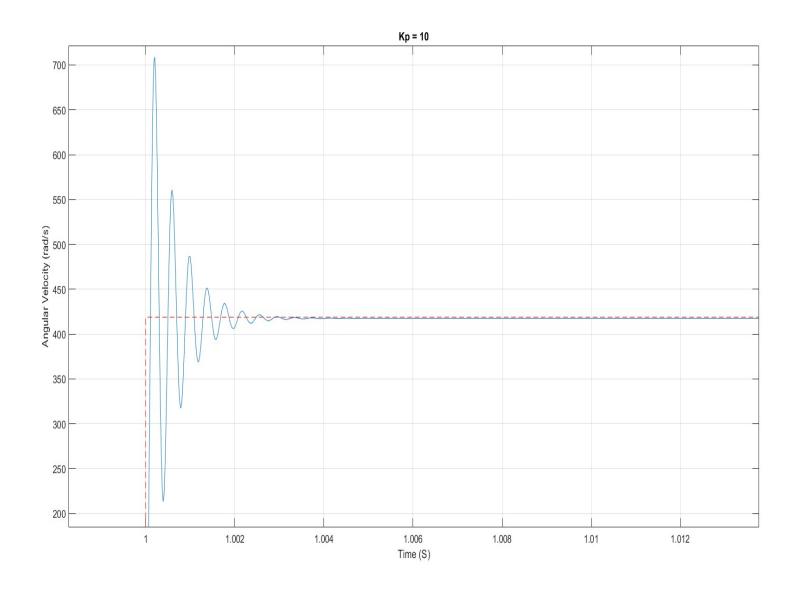
1. Model with Step Response





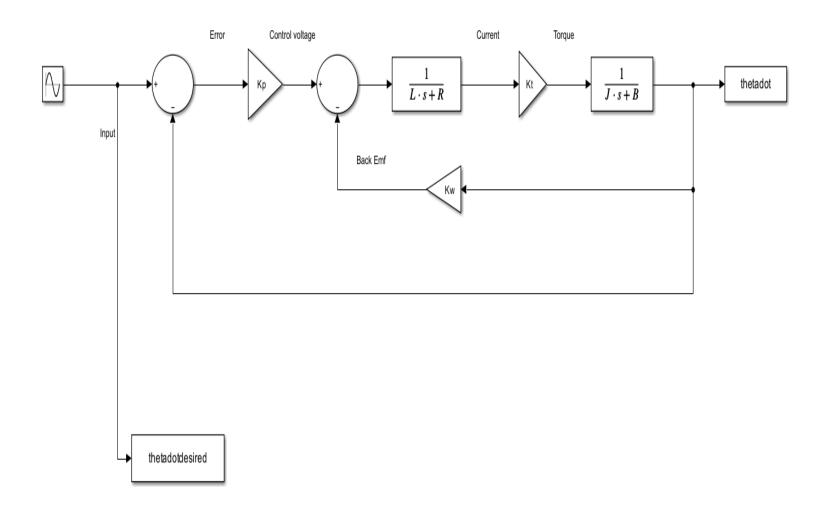


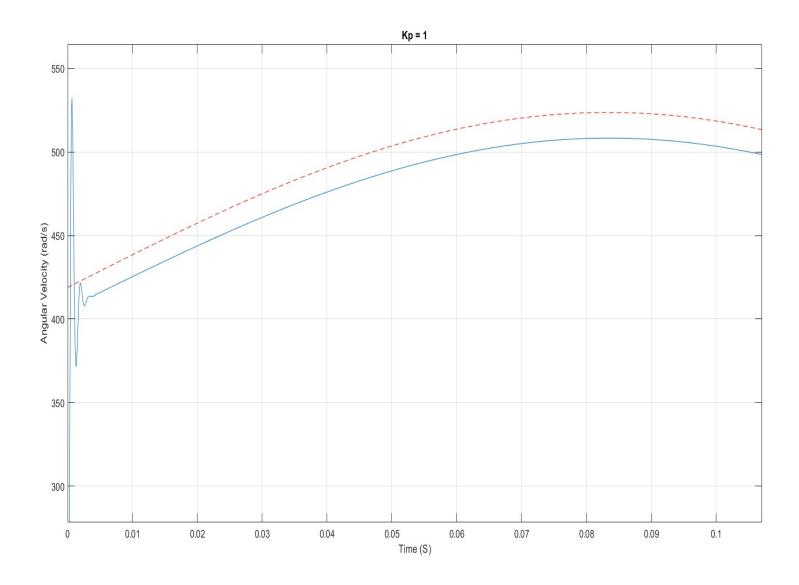


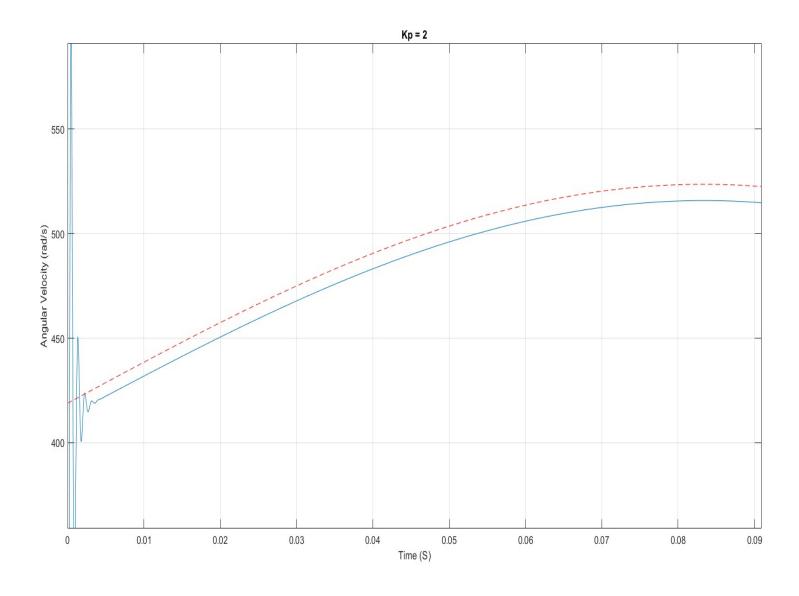


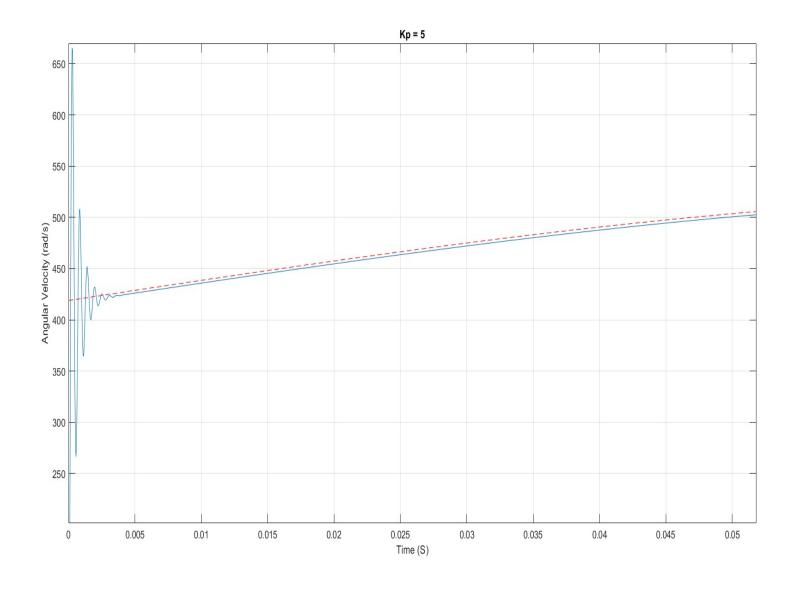
2. Model with Sinusoidal Response

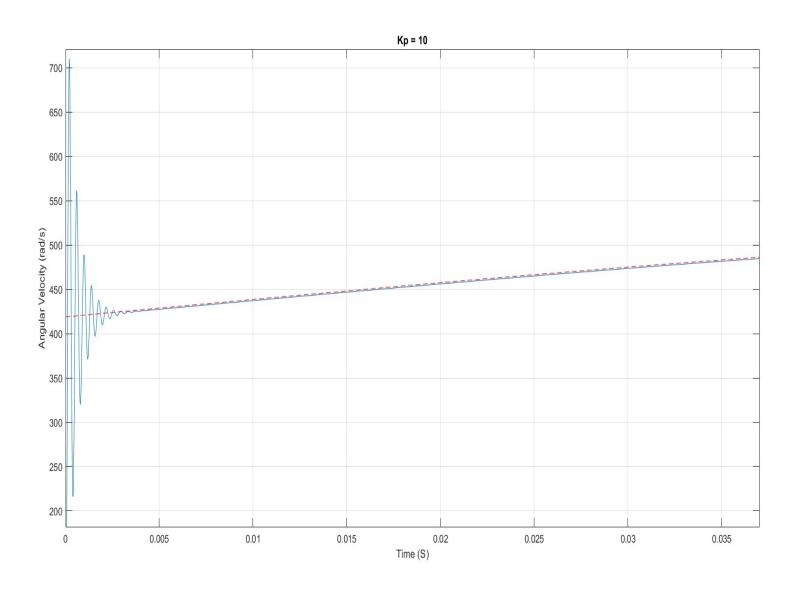




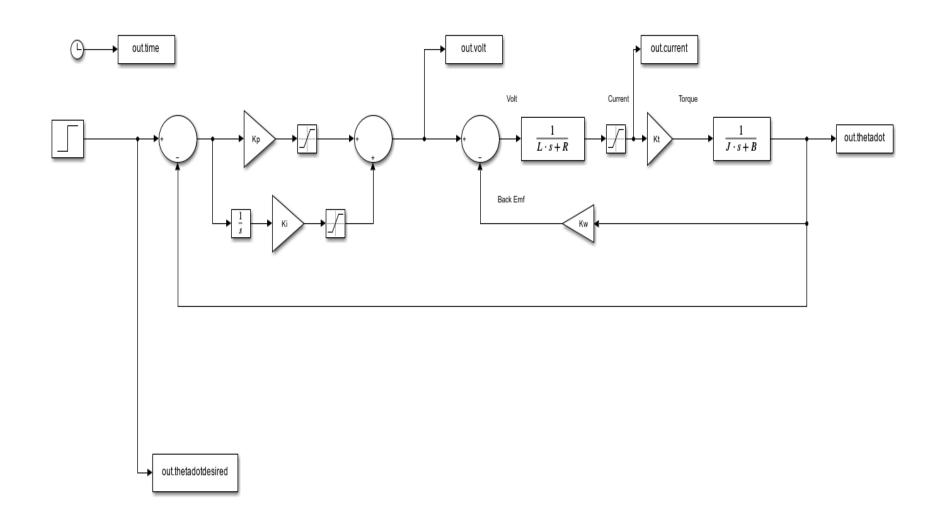


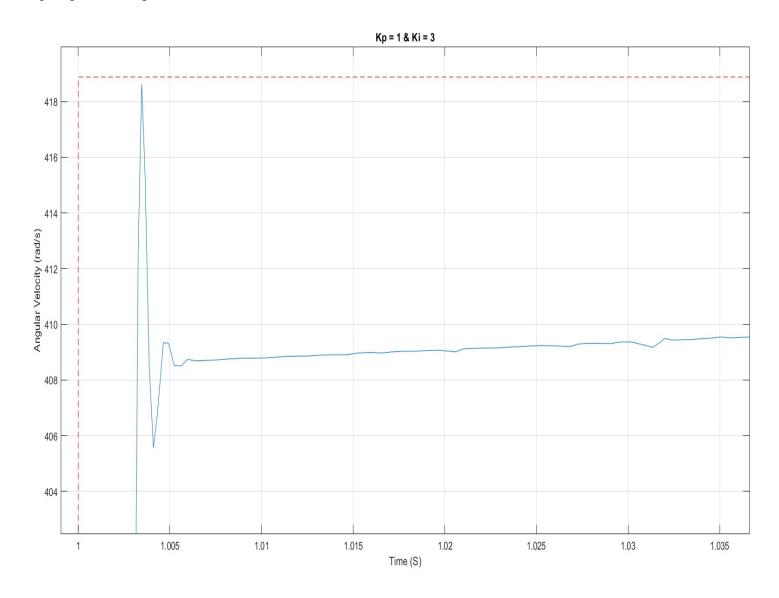






The model with both Kp and Ki and has no overshoot





Best sinusoidal response for Kp = 1 and Ki = 4

