Fortnightly Report on Progress

“Comparative study of active anti-disturbance control and conventional control”

4th Feb – 21st Feb

Topic Studied: Disturbance Observer

* Early history and arrival of AADC and DOBC
* Observer design in state space
* Motivation behind the DOBC
* Block diagram and basic framework
* Block Diagram and Basic Framework of the DOBC
* Frequency Domain formulation of the Disturbance Observer.
  + Importance of the low pass filter design for disturbance rejection
  + Simulation demonstrating the effectiveness of above framework in rejecting sinusoidal disturbances