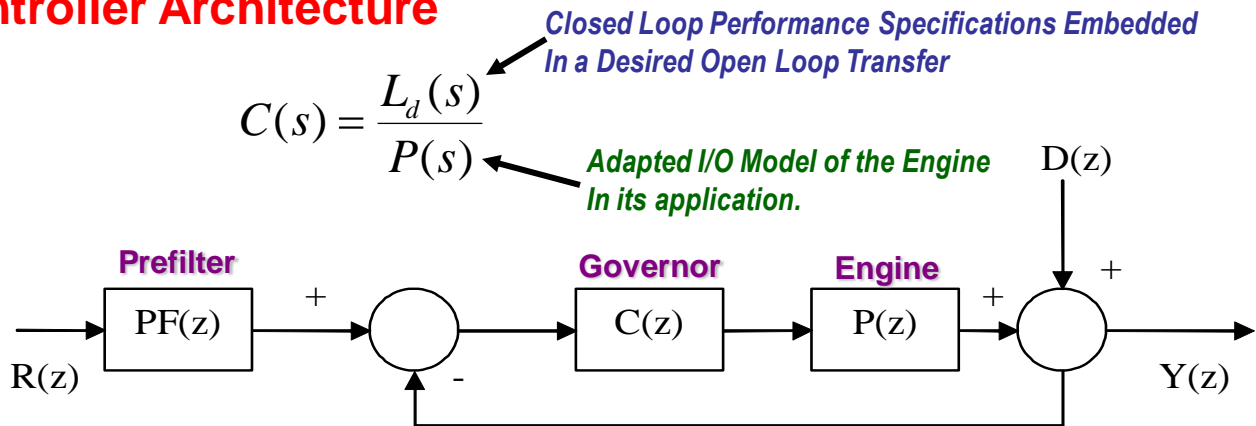


# Self-Tuning 2DOF Adaptive Controllers

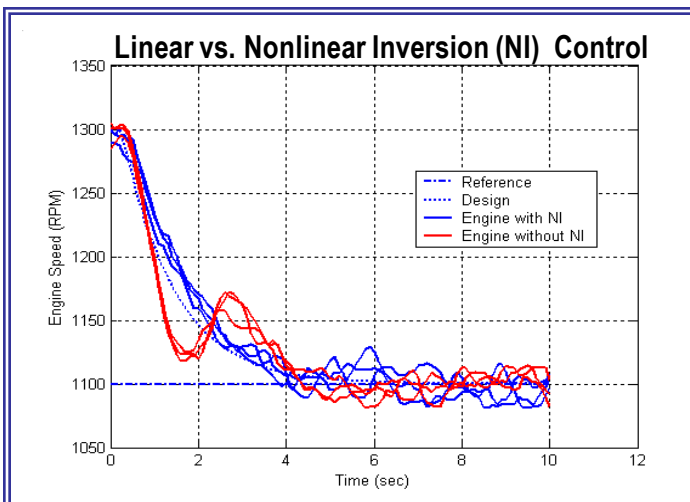
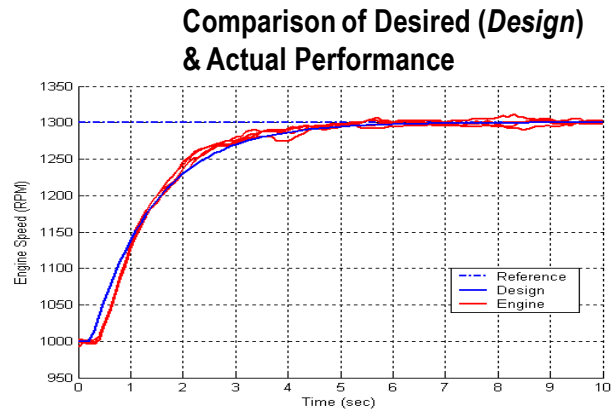
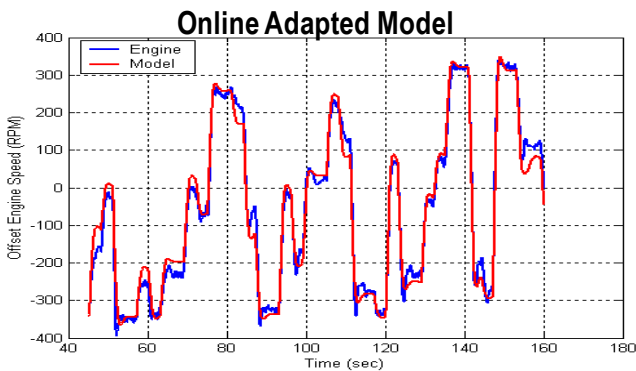
## Research Summary:

Demonstrated is the online identification of a model from measured inputs/outputs (I/O) and the integration of this adapting model into a robust feedback controller design solution. **The objective is to automatically adapt controller parameters based on the adapted I/O model.** The control solution directly addresses meaningful performance specifications, saturation and time delays.

## Controller Architecture



## Results



**Choose Both:**  
 Aggressive Load  
 Acceptance  
 With **NO** Overshooting  
 Throttle Response

**Prefilter** ensures that aggressive engine governors do not produce overshooting throttle responses.

