



MEEG 311 – Lecture 14

Vibration and Control

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Goals:

- Open-loop and closed-loop transfer functions
 - Transmission from reference input to output (command response)
 - Transmission from disturbance input to output (disturbance response)
 - Transmission from noise input to output (noise response)
- Open-loop vs. closed-loop systems and the benefits of feedback
 - Feedback may improve stability
 - Feedback may improve performance in terms of transient and steady-state response
 - Feedback can attenuate disturbances
 - Feedback may reduce sensitivity to small plant uncertainty
 - Feedback relies on measurements