



MEEG 311 – Lecture 23

Vibration and Control

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Goals:

- Introduction to frequency response:
 - System: Linear, time invariant, stable
 - Input: Sinusoidal function at frequency ω
 - Output: Sinusoidal function at frequency ω (same as the input), with amplitude and phase different from that of the input
- The magnitude and phase of the output is computed by the magnitude and phase of the transfer function with the substitution $s = j\omega$
- Bode diagrams: Magnitude (definition of dB) and phase plots