



# **MEEG 311 – Lecture 9**

## **Vibration and Control**

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### **Goals:**

- Liquid level systems:
  - Basic principles: Resistance, capacitance, conservation of matter
  - Example: Simple model of a tank
- A review of modeling representations:
  - Transfer functions (Laplace domain): Classical control design (MEEG 311)
  - State-space (time domain): Modern control design (MEEG 421/621)
  - Classical and modern control synthesis (MEEG 667/867)