



MEEG 311 - Lecture 5

Vibration and Control

Ioannis Poulakakis

11 September 2018

Goals:

- Linearization
 - Taylor series approximation of functions
 - Example: Linearization of inverted pendulum on a cart (state-space representation, input/output representation (transfer functions))
- Models of electrical systems
 - Voltage sources, resistors, inductors, capacitors
 - Kirchhoff's laws
 - Examples of linear electrical circuits