MECH 4370, EE4371 Homework #3 (updated)

Due: February 25, 2019

- Consider a resonator with $\omega_0 = 100$ rad/sec and a Q factor of 100. Calculate the time it takes to settle within 2% of the final value when excited with a unit force.
- Consider a sensor with $\omega_0 = 100$ rad/sec. The sensor is designed to be an under-damped system with Q of 1. Calculate the time it takes to settle within 1% of the final value when excited with an impulse stimulus in this sensor.
- Exercise 12.1 (Chapter 12) in Practical MEMS.
- Exercise 12.5 (Chapter 12) in Practical MEMS.
- Exercise 12.7 (Chapter 12) in Practical MEMS.