

EE 200

Design Tools

Laboratory 3

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Laboratory 3 Topics

- EE 210 Review: Phasors and Filters
- Mixed-Signal Simulation using Multisim
- myThermometer: myDAQ and Formula Nodes

Lowpass Filters in EE 200

- Analog to Digital Conversion \Leftrightarrow ADC \Leftrightarrow A/D \Leftrightarrow A2D
 - Transforms an analog signal to a digital signal
- Lowpass filters precede ADCs to avoid *aliasing*, a phenomenon where the sampling process causes high frequency analog signals to appear as low frequency digital signals
- Later this semester we will consider ADCs and aliasing in greater depth