Books on reserve in McKay Library for ES50

Currently available:

- **RG:** Rizzoni, G, *Principles and applications of electrical engineering* (4th and 5th editions)
- **S&O:** S.E. Schwarz and W.G. Oldham, *Electrical engineering: An introduction*
- **U&M:** F. Ulaby and M. Maharbiz, *Circuits* (2nd printing)

Available soon:

- **S&S:** A.S. Sedra and K.C. Smith, *Microelectronic Circuits*, (7th ed.)
- **N&R:** J.W. Nilsson and S. Riedel, *Electric Circuits* (10th ed.)
- **A&L:** A. Agarwal and J.H. Lang, *Foundations of Analog and Digital Electronic Circuits* (1st ed.)

Lecture 2

Topics: Analog and digital signals; voltage, current, and resistance; Ohm's law; reference directions; ideal sources

- **RG:**
- **S&O:** Ch. 0, 1.1-1.2, 2.1-2.2
- **U&M:**
- **S&S:** N/A
- **N&R:** Ch. 1, 2.1-2.3, 3.1-3.4
- **A&L:** Ch. 1

Lecture 3

Topics: Power and RMS; KCL and KVL

- **RG:**
- **S&O:** Ch. 1.3, 3.3
- **U&M:**
- **S&S:** N/A
- **N&R:** Ch. 2.4, 3.1-3.4, 4.1-4.4
- **A&L:** Ch. 2.1-2.4

Lecture 4

Topics: Parallel and series resistors; voltage and current divider, nodal analysis; superposition

- **RG:**
- **S&O:** Ch. 2.1-2.6
- **U&M:**
- **S&S:** N/A
- **N&R:** Ch. 2.4, 3.1-3.4, 4.1-4.4
- **A&L:** Ch. 3.1-3.3, 3.5

Lectures 5 & 6

Dependent sources; source transformations; operational amplifier and op-amp circuits

- **RG:**
- **S&O:** Ch. 3.1-3.2, 4.1-4.5
- **U&M:**
- **S&S:** Ch. 2.1-2.6
- **N&R:** Ch. 6
- **A&L:** Ch. 15.1-15.5