

ECE 225 Circuit Analysis
Summer 2010

Lecture: 10:45 – 1:15 PM, MW, 312 Lincoln Hall, CRN 13841

13844 Lab. M W 1:30-4:00 pm 3250 SEL

Catalog Course Description:

Electric circuit elements; Ohm's Law; Kirchhoff's laws; transient and steady-state analysis of circuits; Laplace transform methods; network theorems. Laboratory. 4 credit hours.

Prerequisites:

- MATH 220
- PHYS 142 (with grade of C or better)
- ECE 115 (with grade of C or better)

Credit is not given for ECE 225 if the student has credit for ECE 210. Previously listed as EECS 210.

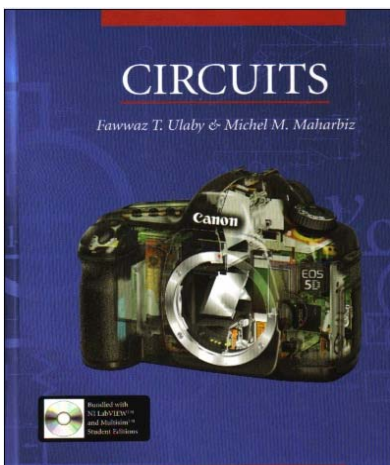
Instructor:

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Teaching Assistant::

Ms. Ishita Basu Office: 900 SEO ibasu2@uic.edu

Textbook:



Circuits, by F.T. Ulaby and M.M. Maharbiz NTS Press, 2009, ISBN 9781934891001.

This textbook comes with two CDROMs (Textbook Resource CD, National Instruments LabVIEW 8.6 Software Suite for Windows Vista/XP).

MultiSIM, a circuit simulation tool within the LabVIEW Suite, will be used extensively throughout the course.

We will also be using MATLAB programming language to solve systems of linear equations in matrix form. This programming language is available for students use on both ACCC and ECE computer networks; a personal student version may also be purchased from Mathworks, Inc. (see www.mathworks.com).

Student Assessment:

Reading assignments and lecture material will be reinforced and tested with homework and quizzes. Homework will be assigned and solutions provided, but will not be collected or graded. Quizzes, given every few weeks, will test the homework material. The final exam will be comprehensive, and must be passed with grade D or higher in order to pass the course.

Lab attendance, reports: 25%

Quizzes: 35%

Final Exam: 40%

No make-up assignments or exams will be given.