
EE2CJ4 Circuits and Systems

Monday and Wednesday, 11:30am-12:20pm, MDCL/1105

Friday, 13:30pm-14:20pm, MDCL/1105

Instructor

Instructor

Webpage

Lecture

Tutorial

Lab

Objectives

Textbook

Outline

Assessment

Quizzes

Midterm

Final

■ Dr. Jun Chen

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Office hour: 13:30pm-14:30pm, Wednesday

Course Webpage

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■ <http://www.ece.mcmaster.ca/~junchen/EE2CJ4.htm>

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Tutorial

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- Tutorial01: Friday, 11:30am-12:20pm, T13/125
Tutorial02: Friday, 12:30pm-13:20am, T13/127
- Starting from Jan. 20
- Attendance will be checked randomly!

Lab

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- Tuesday, 13:30pm-14:20pm, JHE/264
- Starting from Jan. 24, 2012

Course Objectives

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- At the end of this course, students will be able to solve electric circuits involving both passive and active elements for voltages at nodes, and branch or loop currents. They will be able to solve linear transient circuit problems involving second-order systems using either time-domain or Laplace transform techniques, and will be able to analyze and sketch the frequency response of a circuit. In addition, students will have developed efficient tools for analyzing two-port networks and three-phase circuits, and will have been introduced to magnetic circuits.

Textbook

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- Irwin and Nelms, Basic Engineering Circuit Analysis, ninth edition, Wiley, 2008

Outline of Topics

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- Operational amplifiers (Chapter 4)
 - Frequency response (Chapter 12)
 - Laplace transform analysis of linear circuits (Chapters 13 and 14)
- Two-port networks (Chapter 16)
- Magnetically coupled networks (Chapter 10)
- Three phase circuits (Chapter 11)

Assessment

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- Tutorial participation: 5% (lose n points for missing n tutorials, $n \leq 5$)
- Four quizzes: 20%
- Mid-term test: 25%
- Final examination: 50%

Quizzes

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- Midterm
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- Four quizzes (in class): More precisely, there are two quizzes and you have two opportunities for each quiz!
- Quiz 1 (A&B)
- Quiz 2 (A&B)
- For each quiz, you can take A or B or both, and your mark will be the maximum of the two!

Midterm Exam

■ TBD

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Final Exam

- Difficulty level: quizzes \leq midterm exam \leq final exam

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- Midterm
- Final

Questions?