

King Saud University
College of Engineering
Department of Electrical Engineering
EE212 - *Electric Circuits*

First Semester 1433-1434

Instructor:

Prof. Nazar H. Malik

Office 2C-127

Office Hours: Open Door Policy

Email: nmalik@ksu.edu.sa

http://faculty.ksu.edu.sa/nmalik

Phone: 467-6783

Text Book: Introduction to Electric Circuits,
Richard Dorf and James Svoboda, Wiley, 8th Ed

Topics and Sections Covered

1. *Analysis of Circuits having Dependent Sources (5 lectures)*
Sections 2.6, 2.7, 3.8, 4.4, 4.7, 5.3, 5.4, 5.5 and 5.6 of the text book.
2. *Operational amplifiers (4 lectures)*
Sections 6.1, 6.2, 6.3, 6.4, and 6.5 of the text book.
3. *Transients in First Order Circuits (4 lectures)*
Sections 8.1, 8.2, 8.3 and 8.3 of the text book.
4. *Transients in Second Order Circuits (3 lectures)*
From section 9.1, up to section 9.8 of the text book.
5. *Two Port Circuits (4 lectures)*
Sections 17.1, 17.2 and 17.3 of the text book.
6. *Circuit Analysis in s Domain (3 lectures)*
Sections 8.6, 14.2, 14.7 and 14.8 of the text book.
7. *Filters and Resonance (3 lectures)*
Sections 13.4, 16.1, 16.2, 16.3 and 16.4 of the text book.
8. *Mutual Inductance (2 lectures)*
Sections 7.5, 7.6 and 11.9 of the text book.

Grading :

| | |
|----------------------------|-------------|
| Two Midterm Exams | 45% (total) |
| Quizzes and Home works | 10 % |
| Attendance & Participation | 5 % |
| Final Exam | 40 % |

Date of midterm 1: 14-10-2012: Sunday at 6.00 pm.

Date of midterm 2: 16-12-2012: Sunday at 5.30 pm.