

Analog Electronic Circuits
Dept. of Electrical and Computer Engineering
Spring 2014

Instructor: Deog-Kyoon Jeong

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Class Hours: Monday, Wednesday 3:30pm-4:45pm

Class Room: 301-202

Course Control Number: 430.301C 001

Course Overview:

The class covers various topics in analog electronic circuits such as differential amps, frequency characteristics, negative feedback, power amps, filter design techniques, and so on. Small-signal device models of diodes, bipolar junction transistors, and MOS transistors are extensively used to analyze the analog electronic circuits and various circuit design techniques are also shown.

Class Web Page: <http://isdل.snu.ac.kr>

Prerequisites: Introduction to Electronic Circuits

Textbooks and References:

Fundamentals of Microelectronics, Razavi, 1st Ed., Wiley, 2008

Spice manual

Grading:

Midterm Exam I 25%, Midterm Exam II 25%, Final Exam 25%, Homework 25%

Honor Code:

HWs - zero score on copied HWs, two grades down in final grade

Exams - final grade F on cheating

Design Project - final grade F on plagiarism, falsification, or fabrication

Course Schedule:

9/1-9/3	Chapter 9 Cascode Stages and Current Mirrors
9/8-9/10	Chapter 9 Cascode Stages and Current Mirrors
9/15-9/17	Chapter 9 Cascode Stages and Current Mirrors
9/22-9/24	Chapter 10 Differential Amplifiers
9/29-10/1	Chapter 10 Differential Amplifiers
10/6-10/8	(Midterm Exam 1), Chapter 11 Frequency Response
10/13-10/15	Chapter 11 Frequency Response
10/20-10/22	Chapter 11 Frequency Response
10/27-10/29	Chapter 12 Feedback
11/3-11/5	Chapter 12 Feedback
11/10-11/12	Chapter 12 Feedback, (Midterm Exam 2)
11/17-11/19	Chapter 13 Output Stages and Power Amplifiers
11/24-11/26	Chapter 13 Output Stages and Power Amplifiers, Chapter 14 Analog Filters
12/1-12/3	Chapter 14 Analog Filters
12/8-12/10	Chapter 14 Analog Filters, (Final Exam)

Mid-Term Exam I: 10/6/2014

Mid-Term Exam II: 11/12/2014

Final Exam: 12/10/2014