

EE 322 Advanced Analog Electronics

Course title:

Advanced Analog Electronics

Instructor:

Dr. Anders M. Jorgensen

Workman 227

Phone: 505-835-5450

e-mail: anders@nmt.edu

Class hours:

Monday, Wednesday, Friday 10:00-10:50

Classroom location:

Workman 113

Laboratory hours:

Monday 14:00-17:00

Laboratory location:

Workman 189

Office hours:

TBD

Textbooks:

1. *Adel S. Sedra and Kenneth C. Smith, Microelectronic Circuits, Fifth edition, Oxford University Press. (This is the textbook for EE 321)*
2. *Paul Horowitz and Winfield Hill, The Art of Electronics, Second edition, Cambridge University Press. (This book is available at the NMT bookstore)*
3. *Ron Mancini, ed., Op Amps For Everyone, September 2001 edition. (This book is available as a pdf from the course website)*

Learning objectives:

1. Apply basic concepts from previous courses to practical analog circuits and techniques.
2. Learn principles and good experimental technique through laboratory exercises.
3. Exposure to a selected variety of practical circuits.
4. Be able to use a new circuit or IC after reading the section in 'Horowitz and Hill' and the spec sheet.

Prerequisites:

EE 231 and EE 231L, EE 321 and 321L, EE 341.

EE 322 and EE 322L are integrated and must be taken together.

Topics covered:

1. Linear voltage regulators
2. Switching voltage regulators
3. Interference and grounding
4. Noise in circuits
5. Oscillators and comparators
6. Timers

Course Syllabus Analog Electronics Ee 102

RJ Shavelson



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