ELEC-H402

Analog Electronics

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Analog electronics

- Semiconductor basics, PN junctions and diodes, MOSFET and BJT transistors

- Understand

  - How transistors work

  - How to analyze and design transistor circuit

  - Simulate transistor circuits with PSPICE and ORCAD
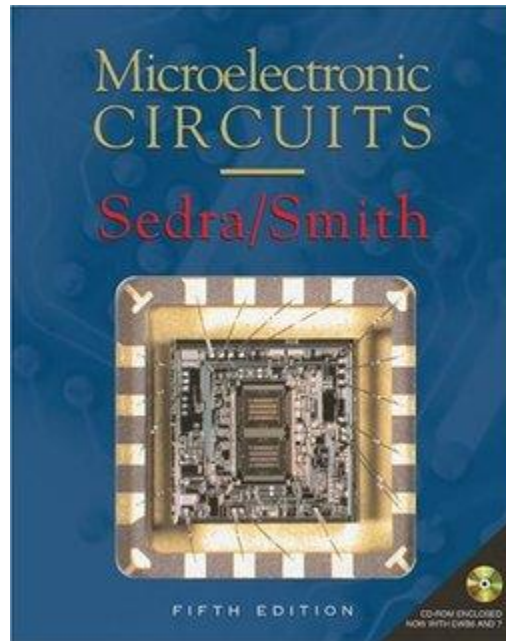
  - Design PCB with ALTIUM

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- You can bring any documents and keep them during the examination
- Written exam
  - Mostly exercices and practical cases (but will require theoretical concepts)
  - Exam will last 4 hours

- Labs
  - Will really help understand some of the concept from the lectures
  - Small quiz at beginning of the labs, will change final grade by -1/+1

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- Microelectronic Circuits, 5th edition, Sedra & Smith, Oxford University Press
  - Course more or less follows textbook (figures from textbook)
  - Contains additional exercices

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