

ECE277B, Winter 2009
Advanced Semiconductor Devices II

Course code 18465
Graduate Course, 3 units

Professor & Class Schedule

Peter Burke
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Lect. M/W 3:30-4:50 P.M. [PCB 1300](#)
Office hours M/W 2-3:30 P.M.

Textbook:

Fundamentals of III-V Devices: HBTs, MESFETs, and HFETs/HEMTs
William Liu, Wiley (1999), ISBN 0-471-29700-3

Grade:

45% Midterm, 10% End-of-term presentation, 45% Final (Mon, March 16, 2009, 4-6 PM)

Course Outline

1. Review of basic semiconductor physics and III-V materials
2. Two-terminal devices
3. HBT DC properties
4. HBT high frequency properties
5. FET DC properties
6. FET high frequency properties