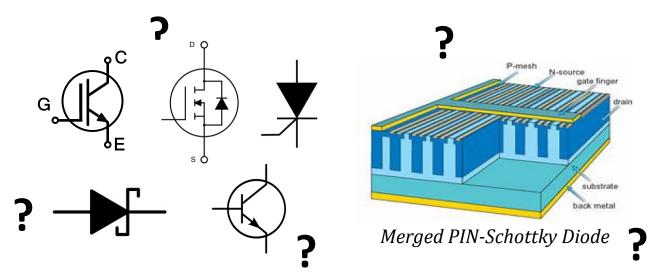
EECS 598 Power Semiconductor Devices Fall 2022



Course Content

- Learn how power switches (transistors) and rectifiers (diodes) work
- Gain familiarity with the materials used for power devices
- Understand how device design determines performance
- Learn how to use commercial software to numerically model power devices through guided projects (Synopsys Sentaurus and Silvaco Atlas)

Course Structure

- 5 homeworks
- Weekly 5-min quizzes and discussions
- 2 simulation projects + 1 class presentation
- Textbook available free online

Course: F22 EECS 598 Section 005 LEC + 051 DIS

Prerequisites: Knowledge of basic semiconductor physics and devices, e.g.

EECS 320, EECS 421, graduate standing or instructor approval

Days/Times: LEC MW 1:30-3:00pm; DIS F 1:30-2:30pm

Instructor: Prof. Becky Peterson, EECS, blpeters@umich.edu