

ECE 320: Lecture 34

Notes

Exam #2

- Friday in class
- 1 sheet (both side) of 8.5in x 11in paper with notes
- Sample exam will be posted

Topics

- Speed Voltage
- Torque production
- Basic DC generator and DC motor operation
- Separately excited machine
- Determine speed if you know E_a and I_f
- $E_a \cdot I_a = \tau \cdot \omega$
- Shunt Field machine
- Series excited
- Compound excited
- Motor starting behavior
- Speed control
- Fundamentals of power electronics
- Buck converter
- Basic relationships
- Determination of boundary of discontinuous conduction