ECE 3600 Exam 2 Study Guide The 2nd Exam will be on Tuesday 11/17/09.

The first part will be a **closed book**, **no calculator** questions, ~ 25 - 35 points

The second part will be a open book, open notes, with calculator problems.

The exam will cover 1. Auto-transformers

Calculations

Possible questions

Connections

Power ratings

2. Per-Unit analysis

Base Values

Per-phase

S_{base} V_{base} I_{base}

Z_{base}

Why?

Bases selections, why

and when do they change

Why?

3. One-Line Diagrams and variations

Base transformation

Calculations

Why?

common symbols

4. Synchronous generators and motors

Know the phasor diagram! Problems like Hw 12 & 14

losses, construction, limits, operation

5. 3-phase induction motors excluding tests

Know how to work with the model. Problems like Hw 15 - 17 p.2

operation

slip

6. Homeworks 9 - 17 p.2

7. Labs 2 - 3, esp 3

8. I'll look through my notes and find a question or two

Field trip to Rocky Mountain Power

Kent Udell's lecture about sustainable

energy

9.

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