ECE 3600 Exam 2 Study Guide	The 2 nd Exam will be on Thursday 11/8/12.
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	Possible questions
1. Non-ideal transformer model	%VR η
Calculations %VR η	
2. Auto-transformers	Connections
Calculations	Power ratings
3. 3-phase transformers	Y or Δ
4. One-Line Diagrams, variations and Per-Unit anal	ysis Common symbols, why PU
Base Values S base V base I base	Z base Bases selections, why and when do they change
Base transformation	Why?
Calculations	
Per-phase	Why OK?
5. Synchronous generators and motors Know the phasor diagram! Problems like Hw SG	losses, construction, limits, operation
6. 3-phase induction motors (not single phase)	operation
Know how to work with the model.	slip
7. Homeworks 9 - Ind3 p.2	
8. Labs 1 - 2	Cores, B-H Voltage - current relationships Transformer modeling
9. Field trip to Rocky Mountain Power Dispatch	I may look through my notes and find a question or two