Study Guide for Final Exam – Chapters 9-15

- 1) Read All Chapters
- 2) Read Chapter Summaries
- 3) Study Chapter Definitions
- 4) Study Chapter Review Questions / Homework Questions
- 5) Review CD-ROM Media Clips
- 6) Review CD-ROM Chapter Flash Cards
- 7) Review CD-ROM Quick Quizzes
- 8) Review and Practice Ohms Law handouts & problems, Series vs. Parallel problems, Battery Amp Hour problems, Compact Fluorescent vs. Incandescent, NABCEP Practice Problems
- 9) Review Class Quizzes
- 10) Review Class Notes

Exam will be 65-70 Questions and comprised of approx.:

- 30-40 Multiple Choice
- 15-25 Fill-in
- 10-20 Ohms Law / Series vs. Parallel Problems, Battery Amp Hour Problems, CF vs. Incandescent (from ALL Chapters), NABCEP Practice Problems

Sample Questions:

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- 1. ____ systems can be sized according to either the stand-alone methodology or the interactive methodology.
 - a. Hybrid
 - b. Interactive
 - c. Bimodal
 - d. Stand-alone
 - 2. ___ is the percentage of time a load is operating.
 - a. Operating period
 - b. Duty cycle
 - c. Active phase
 - d. Load time

3.		The ratio is the ratio of electrical energy demand to average insolation during a period.		
		ical design		
		ergy-insolatio	on a second control of the second control of	
	•	wer demand rst-case		
4			hottomy hogad DV gyotoms is usually an integen multiple of V	
4.	a. 5	The DC voltage for battery-based PV systems is usually an integer multiple of V.		
	b. 10			
	c. 12			
	d. 15			
5.	System is the percentage of time over an average year that a stand-alone PV system meets the system load requirements.			
	a. aut	onomy		
		ilability		
	c. effi			
	d. fun	ctionality		
	Completion			
	Complete each sentence or statement.			
_				
6.	The nominal voltage and rated of the selected battery are used to			
	determine the configuration of the battery bank.			
7.	For systems, the array must be sized to produce enough electrical			
	energy	energy to meet all the load requirements during the critical design month.		
8.		mounted PV systems may also contain lights, weather stations,		
	communications equipment, security cameras, or other devices.			
9.	A(n) tracking mount is an array mounting system that uses electric			
	motors and gear drives.			
10.		corrosion is an electrochemical process that causes electrical current to		
	flow be	flow between two dissimilar metals, eventually corroding one of the materials.		
	Answers: MULTIPLE CHOICE			
		ANS:	C	
		ANS:	В	
		ANS:	A	
		ANS:	C	
		ANS:	В	
	COMPLETION			
		ANS:	capacity	
		ANS:	stand-alone	
		ANS:	Pole	
		ANS:	active	
	10.	ANS:	Galvanic	