

ECE 3600 homework # 7

Due: Thur, 9/25/08

a

1. Textbook 2-21, give % differences from mean value calculated in the example.
2. Textbook 2-22, Note: recall that a toroid has a circular cross-section.
3. Textbook 2-23

Name)_____

ECE 3600 homework # 8

Due: Tue, 9/30/08

a

1. List the 5 common long-distance high-voltage transmission line voltages given in your text.
2. List at least 3 reasons why transmission line cost go up with the voltage.
3. a) What is the lowest transmission line voltage where it is common to use multiple wires (bundles) per phase?

b) What is the main reason for bundling?
4. What is the approximate efficiency of the transmission and distribution system in the US?
5. a) What does ACSR stand for.

b) Describe ACSR, that is, its materials and construction.

Answers

Hw 7: 1. +5.11%, - 4.61% 2. $1.34 \cdot 10^7$ 3. 19 ~3000