

Electric Machines & Drives

Homework #6 Answers: Chapter 18 & Chapter 19

Due: 11/07/11

Chapter 18 of text book - Answers

18-1: 1200 RPM

18-9: a. 14A, 14A, b. 33.8° , c. 26.8A, d. 70.7%

18-10: a. no, b. probably not

18-15: a. 157.5V

Chapter 19 of text book - Answers.

19-4: 1152

19-6: 30°

19-9: 240ms

19-10: 0.00175 in

19-11: a. 144W, b. 78.5W

19-14: 437.5 RPM,

19-16: a. 7.2° , b. 3.6° , c. 1.8°

Note:

For Problem 19-10, one turn (360 degrees) = 1 linear thread movement

For Problem 19-11, 9-11 b. use Torque = 3 N*m