

ME-407 HEAT TRANSFER ASSIGNMENT SHEET

Textbook: AN INTRODUCTION TO HEAT TRANSFER, Sixth edition
by Frank P. Incropera and David P. DeWitt, John Wiley & Sons 2011
ISBN:978 0470 50196 2 Prerequisites: Math222, ME304, ME311

WK	TOPICS	PAGES	CH	PROBLEMS*
1	Introduction , Equations	2-46 68-93	1	1.2; 1.26; 1.28a, sp1**
2	Steady conduction	114-153	2,3	2.13; 3.13 sp2
3	Fins	153-177	3	3.136, sp3
4	Shape factor, Numerical	230- 256	4	4.31, sp4
5	Quiz 1 , Lumped system	280-286,298-310	5	5.22
6	Transient heat transfer in solids	330-346	5	5.71, sp5
7	Numerical transient & steady		5 4	4.45, 4.64a, sp6
8	Numerical methods, Transient, Quiz 2		5	5.101
9	<u>Design Project</u> introduction, Introduction to convection	378-405	6 7	6.43, sp7
10	Forced: external Internal flows	416-446, 490-527	7 8	7.34a, 7.57 8.25a, sp8
11	Natural convection Quiz 3	562-589, 596-597	9	9.77a, sp9
12	Heat Exchangers	672-701	11	11.10 11.59, sp10
13	Radiation	734-793	12	12.1 , 12.81, sp11
14	Radiation, <u>Project defense</u>	828-851	13	13.10, 13.18
15	Proj. defense, Review			
	Final			

*Homework assignments can vary for different course sections

** Individualized Special problems if any will be given by the instructor.

Homework: Solutions will be collected for grading. Late submissions will be checked but no credits given. Due date will be posted on the blackboard. Students are required to submit their homework at the beginning of the class on the date due.

Grading:

Three quizzes: 18% each. Total of 54%
Homework 6% + Proj. & Class performance 7% = 13%
Final exam 33%

Office Hrs: (given by the instructor)

The NJIT Honor Code will be upheld and violations will be brought to the immediate attention of the Dean of Students.