

ME-407 HEAT TRANSFER ASSIGNMENT SHEET  
**Textbook:** AN INTRODUCTION TO HEAT TRANSFER, fourth edition  
 by Frank P. Incropera and David P. DeWitt, John Wiley & Sons 2002

WK	TOPICS	PAGES	CH	PROBLEMS
1	Introduction	2-34	1	1.3; 1.13; 1.36, 1.61
2	Introduction to Conduction	51-73	2	2.11; 2.18; 2.21; 2.23
3	Steady conduction	87-126	3	3.11; 3.15; 3.39; 3.49
4	Fins, common shapes	126-149, 192- 196	3, 4	3.106; 4.25a; 4.30; 4.31
5	<b>Quiz 1</b> Transient Conduction, Lumped system	239-254	5	5,4; 5.5
6	Transient heat transfer in solids	254-280	5	5.31; 5.47; 5.64
7	Numerical methods, steady	196-219	4	4.37; 4.42; 4.44; 4.51
8	Numerical methods, Transient, <b>Quiz 2</b>	280-297	5	5.94; 5.106; 5.113a
9	<u>Design Project</u> introduction, Introduction to convection	325-332 363-381	6, 7	6.29; 6.35; 7.20
10	Forced: external/internal flows	381-392 433-453	7, 8	7.45; 7.49; 8.16a,b; 8.17
11	Natural convection <b>Quiz 3</b>	495-520	9	9.5; 9.16; 9.54; 9.59
12	Radiation	661-717	12	12.15; 12.20; 12.32a
13	Radiation, <u>Project defense</u>	747-771	13	12.44; 13.9a; 13.11a
14	Heat Exchangers	605-631	11	11.4; 11.10
15	<b>Review</b>			
	<b>Final</b>			

**Homework:** Solutions will be collected for grading once a week. Late submissions will be accepted only under special circumstances and the grade for late submissions will be automatically lowered.

**Grading:** Final grade will be given based on a maximum of 300 points:

Three quizzes:	50 points each,
Homework	60 points
Project (group)+ class performance	20 points
Final exam	70 points