

ME-480**INTRODUCTION TO SOLAR ENERGY****ASSIGNMENT SHEET**

TEXT: Solar Engineering of Thermal Processes by John A. Duffie and William A. Beckman, Jon Wiley & Sons, 2nd ed., 1991.

Sun Angle **Calculator**, Libbey-Owens Ford.

Week	Chapter	Pages	Material	Problems
1,2	1	3 to 45	Introduction Solar Geometry, Shading	1.1, 1.2, 1.3, 1.5, 1.6, 1.7.1.9
3,4	Lecture Notes		Sun-Path Diagrams and Use of Sun Angle Calculator	sp 1, sp 2, sp3, sp 4
----- ---	QUIZ #1	----- -----		
5,6,7	2	46 to 146	Available Solar Radiation Topics	2.3, 2.4(a), 2.4(b) 2.5, 2.8(a)
8,9	3	147 to 183	Select Heat Transfer Topics	3.2, 3.4, 3.6, 3.9
10	4	184 to 215	Radiation Characteristics of Opaque Materials	4.2, 4.4, 4.5, 4.6
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11,12	5	216 to 249	Radiation Transmission Through Glazing and Absorbed Radiation	5.1, 5.2, 5.3, 5.6
13	6	250 to 329	Flat-Plate Collectors	6.1, 6.2, 6.4, 6.5, 6.15
14	8	382 to 410	Energy Storage	8.1, 8.2, 8.4
15	10		Selected Topics Calculators	System Thermal Problems
----- ---	FINAL EXAM	----- -----		