

CE 2017
ENGINEERING MECHANICS: STATICS and MECHANICS of MATERIALS

HOMEWORK ASSIGNMENTS for EXAM #2

Text: STATICS and MECHANICS of MATERIALS, by R.C. Hibbeler, 5th Edition

CHAPTER FOUR PROBLEMS: EQUILIBRIUM of a RIGID BODY

Lecture	Section	Topic	Lecture Dates	Homework Problems (from Text)	Homework Due Date
14	Section 4.1/2/3	Equilibrium in 2-dimensions/Free Body Diagrams	7/10 Feb	1, 7, 15	17 Feb
15	Section 4.4	Two- and Three-Force Members	11 Feb	7 (using 3-force approach)	17 Feb
16	Section 4.5/6	Equilibrium in Three Dimensions	12/13 Feb	27, 38	17 Feb
17	Sect 4.7/8	Friction	14 Feb	54, 58	17 Feb

CHAPTER FIVE PROBLEMS: STRUCTURAL ANALYSIS

Lecture	Section	Topic	Lecture Dates	Homework Problems (from Text)	Homework Due Date
18	Section 5.1/2	Simple Trusses/ /Zero Force Members	17 Feb		24 Feb
19	Section 5.3	Method of Joints	18 Feb	2, 15	24 Feb
20	Section 5.4	Method of Sections	19 Feb	21, 29	24 Feb
21	Section 5.5	Frames and Machines	20 Feb	34, 39	24 Feb

CHAPTER SIX PROBLEMS: GEOMETRIC PROPERTIES and DISTRIBUTED LOADINGS

Lecture	Section	Topic	Lecture Dates	Assigned Problems (from Text)	Homework Due Date
22	Section 6.1/2	Center of Gravity/Centroids/Composite Bodies	21 Feb	F6-9, 37	24 Feb
23	Section 3.9	Reduction of a Distributed Loading	24 Feb	109, 110	27 Feb
		Review for Exam #2	25 Feb		

Exam #2

26/27 Feb