

CE 2017
ENGINEERING MECHANICS: STATICS and MECHANICS of MATERIALS

HOMEWORK ASSIGNMENTS for EXAM #3

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

CHAPTER SEVEN PROBLEMS: STRESS and STRAIN

Lecture	Section	Topic	Lecture Dates	Assigned Problems (from Text)	Homework Due Date
24	Section 7.1-2	Internal Resultant Loadings	28 Feb/2 Mar	5, 6, 7	18 Mar
25	Section 7.3-5	Normal Stress/Shear Stress	3 Mar	33, 35, 37	18 Mar
26	Section 7.6	Allowable Stress Design	4 Mar	54, 55	18 Mar
27	Section 7.7/8	Deformation and Strain	5 Mar	78, 87	18 Mar

CHAPTER EIGHT PROBLEMS: MECHANICAL PROPERTIES OF MATERIALS

Lecture	Section	Topic	Lecture Dates	Assigned Problems (from Text))	Homework Due Date
28	Section 8.1-4	Stress-Strain Relationship for Materials	6 Mar	1, 2, 3, 5	26 Mar
29	Section 8.5/6	Poisson's Ratio/Shear Stress Strain	18 Mar	21, 22, 25	26 Mar

CHAPTER NINE PROBLEMS: AXIAL LOAD

Lecture	Section	Topic	Lecture Dates	Assigned Problems (from Text))	Homework Due Date
30	Section 9.1/2	St Venant's Principle/ Axial Loadings	19/20 Mar	3, 23, F9-4	26 Mar
31	Section 9.3-5	Statically Indeterminate Reaction Loadings	23 Mar	41, 55	26 Mar
32	Section 9.6	Thermal Stress	24 Mar	57, 63	26 Mar
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