

**CE 2017**  
**ENGINEERING MECHANICS: STATICS and MECHANICS of MATERIALS**

HOMEWORK ASSIGNMENTS for EXAM #4

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

**CHAPTER TEN PROBLEMS:      TORSION**

Lecture	Section	Topic	Lecture Dates	Assigned Problems (from Text)	Homework Due Date
33	Section 10.1/2	Deformation of a Circular Shaft/Shear Stress	30/31 Mar	3, 5, 15	6 Apr
34	Section 10.3	Power Transmission	1 Apr	26	6 Apr
35	Section 10.4	Angle of Twist	2 Apr	37, 38, 39	6 Apr
36	Section 10.5	Statically Indeterminate Torque-Loaded Member	3 Apr	63, 67, 75	6 Apr

**CHAPTER ELEVEN PROBLEMS:      BENDING**

Lecture	Section	Topic	Lecture Dates	Assigned Problems (from text)	Homework Due Date
37	Section 11.1	Shear and Moment Diagrams	6 Apr	1	16 Apr
38	Section 11.2	Graphical Method for Shear/Moment Diagrams	7/8 Apr	5, 10, 30	16 Apr
39	Sections 6.3/4/5	Moments of Inertia for Areas/Parallel Axis Theorem/Composite Areas	9 Apr	83, 92	16 Apr
40	Section 11.3/4	Bending Deformation of a Straight Member	10 Apr		16 Apr
41	Section 11.4	The Flexure Formula	13/14 Apr	49, 54, 95	16 Apr

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15/16 Apr