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Review: Engineering Economics (2018.09.12) FE Exam Statics - Force Members On A Truss Using Method Of Section Engineering Mechanics Statics Midterm Solutions MEM202 Engineering Mechanics – Statics First Mid-term Examination Solution Monday, July 18, 2005 11:00 AM – 11:50 AM I. Solve all five problems II. Each problem is 20 points. Therefore, solve the easy one first. III. Extra credit is 5 points. IV. Equations you may need are given on the last page. NAME: I.D.: 1. 2. 3. 4. 5. Extra credit:

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Engineering Statics MECH 223 Review Problems for Midterm 1 Set 2. 1. The unit consisting of two rigidly connected pulleys is acted on by a couple and two tension forces, the latter exerted by belts which are securely wrapped onto the two pulley surfaces (as shown in the drawing). Determine the equivalent force-couple system at the pulley axis O. Solution:

Engineering Statics MECH 223 Review Problems for Midterm

1 ...

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2.7 + 2 + 6 + 2 + 6 R = ( P2 cos 25 P3 cos 40 )i + (P1 + P2 sin 25 )j + P3 sin 40 k = 800i + 700j + 500k lb Equating like

coe¢cients: P2 cos 25 P3 cos 40 = 800 P1 + P2 sin 25 = 700 P3 sin 40 = 500 Solution is P1 = 605 lb J P2 = 225 lb J P3 = 778 lb J 2.8 i + 2j + 6k T1 = 90p ( 1)2 2 2 = 14:06i + 28:11j + 84:33k kN 2i 3j + 6k T2 = 60p ( 2)2 + ( 3)2 + 62 = 17:14i 25:71j + 51:43k kN 2i 3j + 6k T3 = 40p 22 + ( = 11:43i 17:14j + 34:29k kN 3)2 + 62 R = T1 + T2 + T3 = ( 14:06 17:14 + 11:43)i +(28 ...

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in the form of machines which convert electrical energy ...