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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
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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:

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$2.7 + 2 + 6 + 2 + 6 R = (P_2 \cos 25 P_3 \cos 40) i + (P_1 + P_2 \sin 25) j + P_3 \sin 40 k = 800i + 700j + 500k$ lb
Equating like coefficients: $P_2 \cos 25 P_3 \cos 40 = 800$ $P_1 + P_2 \sin 25 = 700$ $P_3 \sin 40 = 500$
Solution is $P_1 = 605$ lb $P_2 = 225$ lb $P_3 = 778$ lb
 $2.8 i + 2j + 6k T_1 = 90p (1)^2 2 2 = 14:06i + 28:11j + 84:33k$ kN $2i 3j + 6k T_2 = 60p (2)^2 + (3)^2 + 62 = 17:14i 25:71j + 51:43k$ kN $2i 3j + 6k T_3 = 40p 22 + (= 11:43i 17:14j + 34:29k$ kN $3)^2 + 62 R = T_1 + T_2 + T_3 = (14:06 17:14 + 11:43)j +(28 ...$

Solutions manual for engineering mechanics statics 4th ...
Engineering Mechanics - Statics and Dynamics. By Prof. Anubhab Roy | IIT Madras
Static and dynamical mechanical systems are the heart of all engineering today. The static systems range from bridges, load bearing members of roofs to fasteners and bolts. Dynamical systems are also ubiquitous in the form of machines which convert electrical energy ...

Engineering mechanics is one of the fundamental branches of science that is important in the education of professional engineers of any major. Most of the basic engineering courses, such as mechanics of materials, fluid and gas mechanics, machine design, mechatronics, acoustics, vibrations, etc. are based on engineering mechanics courses. In order to absorb the materials of engineering mechanics, it is not enough to consume just theoretical laws and theorems—a student also must develop an ability to solve practical problems. Therefore, it is necessary to solve many problems independently. This book is a part of a four-book

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series designed to supplement the engineering mechanics courses. This series instructs and applies the principles required to solve practical engineering problems in the following branches of mechanics: statics, kinematics, dynamics, and advanced kinetics. Each book contains between 6 and 8 topics on its specific branch and each topic features 30 problems to be assigned as homework, tests, and/or midterm/final exams with the consent of the instructor. A solution of one similar sample problem from each topic is provided. This first book contains seven topics of statics, the branch of mechanics concerned with the analysis of forces acting on construction systems without an acceleration (a state of the static equilibrium). The book targets the undergraduate students of the sophomore/junior level majoring in science and engineering.

Engineering Mechanics is one of the fundamental branches of science which is important for the education of professional engineers regardless of major. Most of the basic engineering courses, such as mechanics of materials, fluid and gas mechanics, machine design, mechatronics, acoustics and vibrations, etc., are based on the Engineering Mechanics course. In order to absorb the materials of Engineering Mechanics, it is not enough to just consume theorems and theoretical laws. A student also must develop an ability to solve practical problems. Therefore, it is necessary to solve many problems independently. The books in this series are designed as supplements to the Engineering Mechanics course and can be used to apply the principles required for solving practical engineering problems in the following branches of Mechanics: Statics, Kinematics, Dynamics, and Advanced Kinetics. Each book contains several (between 6 and 8) topics of the branch. Each topic has 30 problems to be assigned as homework, tests, and midterm/final exams

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with the consent of the instructor. A solution of one similar sample problem from each topic is provided. This fourth book in the series contains eight topics of Advanced Kinetics, which is the branch of Mechanics that is concerned with the analysis of motion of both particles and rigid bodies with reference to the cause of the motion. This book is targeted to undergraduate students of the junior/senior level as well as graduate students majoring in science and engineering.

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these objects. This book targets undergraduate students at the sophomore/junior level majoring in science and engineering.

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