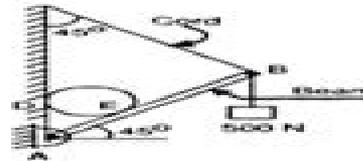
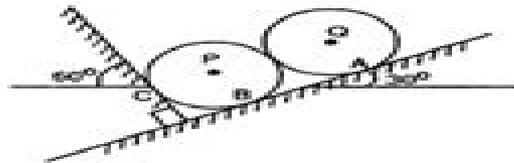


14. A cylinder of diameter 1 m weighing 1000 N and another block weighing 500 N supported by a beam of length 7 m and weighing 25. r the help of a cord as shown the surfaces of contact are frictionless, determine tension in cord and reaction at point of contacts.



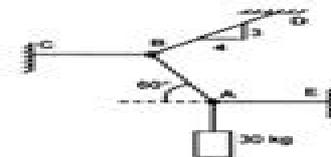
15. Two homogenous solid cylinders of identical weight of 10 N and radius of 0.4 m are resting against inclined wall and, ring ground as shown. Assuming smooth surfaces find reactions at A, B and C of the contact points.



16. Two identical rollers each of weight 500 N and radius r are kept on a right angle frame ABC having negligible weight. Assuming smooth surfaces, find the reactions induced at all contact surfaces.



17. A 30 kg pipe is supported at 'A' by a system of five chords determine the force in each chord for equilibrium.



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Elementary Engineering Mechanics Eugene George Key,1960 **IV Latin American Congress on Biomedical Engineering 2007, Bioengineering Solutions for Latin America Health, September 24th-28th, 2007, Margarita Island, Venezuela** Carmen Müller-Karger,Sara Wong,Alexandra La Cruz,2007-11-07 The IV Latin American Congress on Biomedical Engineering CLAIB2007 corresponds to the triennial congress for the Regional Bioengineering Council for Latin America CORAL it is supported by the International Federation for Medical and Biological Engineering IFMBE and the Engineering in Medicine Biology Society IEEE EMBS This time the Venezuela Society of Bioengineering SOVEB organized the conference with the slogan Bioengineering solution for Latin America health **Applied Mechanics for Engineering Technology** Keith M. Walker,2004 This introduction to applied mechanics combines a straightforward readable foundation in underlying physics principles with a consistent method of problem solving that strips a problem to essentials and solves it in a logical organized manner It presents the physics principles in small elementary steps keeps the mathematics at a reasonable level algebra trigonometry and geometry are used provides an abundance of worked examples and features problems that are as practical as possible without becoming too involved with many extraneous details The volume addresses forces vectors and resultants moments and couples equilibrium structures and members three dimensional equilibrium friction centroids and center of gravity moment of inertia kinematics kinetics work energy and power and impulse and momentum For those interested in an introduction to applied mechanics **Engineering Mechanics** R. C. Hibbeler,2010 This volume presents the theory and applications of engineering mechanics Discussion of the subject areas of statics and dynamics covers such topics as engineering applications of the principles of static equilibrium of force systems acting on particles and rigid bodies structural analysis of trusses frames and machines forces in beams dry friction centroids and moments of inertia in addition to kinematics and kinetics of particles and rigid bodies Newtonian laws of motion work and energy and linear and angular momentum are also presented **Afternoon, Evening and Saturday Classes for the Winter and Spring Sessions** Columbia University. School of General Studies,1959 **Journal of Engineering Mechanics** ,2004 **Engineering Standards** United States. National Bureau of Standards,1971 *The Engineer* ,1906

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