

15. (a) A rope is wrapped three and a half times around a cylinder as shown in Figure 15 (a). Determine the force T_1 exerted on the free end of the rope that is required to support a 1 kN weight. The coefficient of friction between the rope and the cylinder is 0.25.

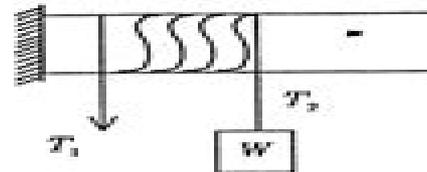


Figure 15 (a)

Or

- (b) An inextensible cord going around a homogeneous cylinder A of mass 100 kg holds a massless plate B. The collar C of mass 30 kg is released from rest in the position shown in Figure 15 (b) and drops upon the plate. Determine the velocity of the collar when it has descended an additional 0.5 m after striking the plate. Assume that there is no rebound; that is C and B move downwards locked together and the cord remains taut.

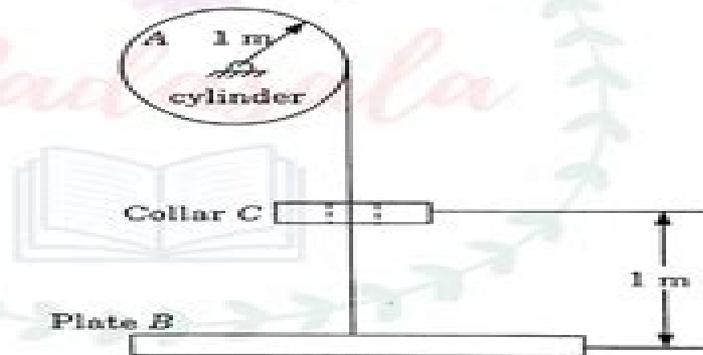


Figure 15 (b)

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G Psacharopoulos



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Analysis Of Three Dimensional Problems However Classical Approach Gives Physical Feel Of The Structure And Ideally Suited For Two Dimensional Problems Hence This Approach Is Also Used And Explained Wherever Necessary In Engineering Mechanics Drawing Free Body Diagrams Is Very Important Hence In All The Problems In The Text Free Body Diagrams Are Drawn Neatly All Problems Are Solved Systematically Without Slipping Any Step So That The Reader Picks Up Correct Method Of Presenting Solution Standard Notations Are Used Throughout **Engineering Record** ,1916 **Engineering Record, Building Record and Sanitary Engineer** ,1916 Catalog of Copyright Entries. Fourth Series Library of Congress. Copyright Office,1967 Aeronautical Engineering Review ,1956

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a). What voiced consonant has the same place of articulation as [t] and the same manner of articulation as [f]? ...

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