

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.

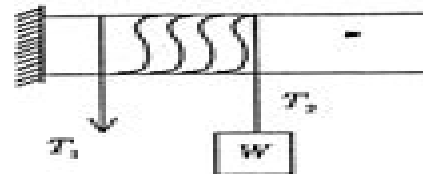


Figure 15 (a)

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.

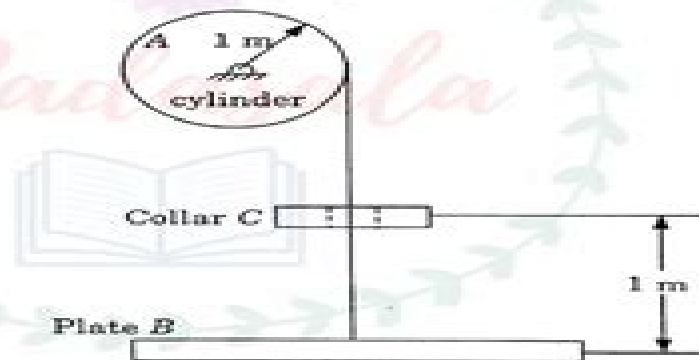


Figure 15 (b)

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Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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