

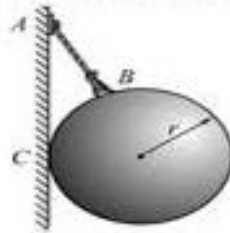


GE8292-ENGINEERING MECHANICS

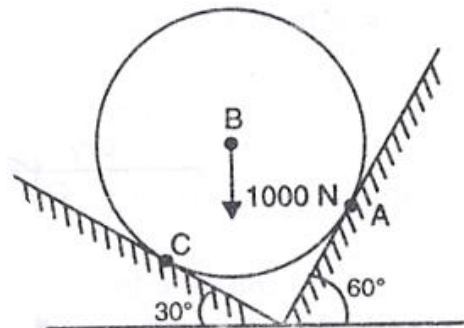
TUTORIAL-2

1.

A smooth sphere of mass 2kg is supported by a chain as shown in fig. The length of chain AB is equal to the radius of the sphere. Draw free body diagram of each element and find the tension in the chain and reaction of the wall.



2. Find the support reactions using Lami's theorem.



3.

Two forces are applied as shown to a hook. Determine graphically the magnitude and direction of their resultant using (a) the parallelogram law, (b) the triangle rule.

Two forces are applied as shown to a bracket support. Determine graphically the magnitude and direction of their resultant using (a) the parallelogram law, (b) the triangle rule.