



What is the dimension of surface tension?

## The dimension of surface tension is?

- A.  $M^{-2}L$
  - B.  $MT^{-2}$**
  - C.  $ML^{-2}T^{-2}$
  - D.  $ML^{-2}T$
- 

## The dimension of Surface Tension

**Surface tension** is the tendency of liquid surfaces to shrink into the minimum surface area possible. The tension of surface allows insects (e.g. water striders), usually denser than water, to float and slide on a water surface. However, It is nothing but the force act on one surface or one side. For instance, the atmospheric pressure act on the water in an open vessel.

- Surface tension = Force/ side or page
- Surface tension = Newton/ meter
- Newton = **kgm/s<sup>2</sup>**

However, In dimensional unit,

### Dimension of surface tension

- Surface tension=  $(kgm/s^2)/m=kgm/(s^2) \times m$
- Surface tension =  $kg/s^2 = \mathbf{MT^{-2}}$

## Surface Tension Formula and Its Derivation of

## Dimension

the surface tension  $s$ ,  $[s] = ?$

$$s = \frac{\rho g r h}{2}$$

$$\Rightarrow [s] = \frac{M}{L^3} \times \frac{L}{T^2} \times L \times L$$

$$\Rightarrow [s] = M T^{-2}$$

The dimension of surface tension is

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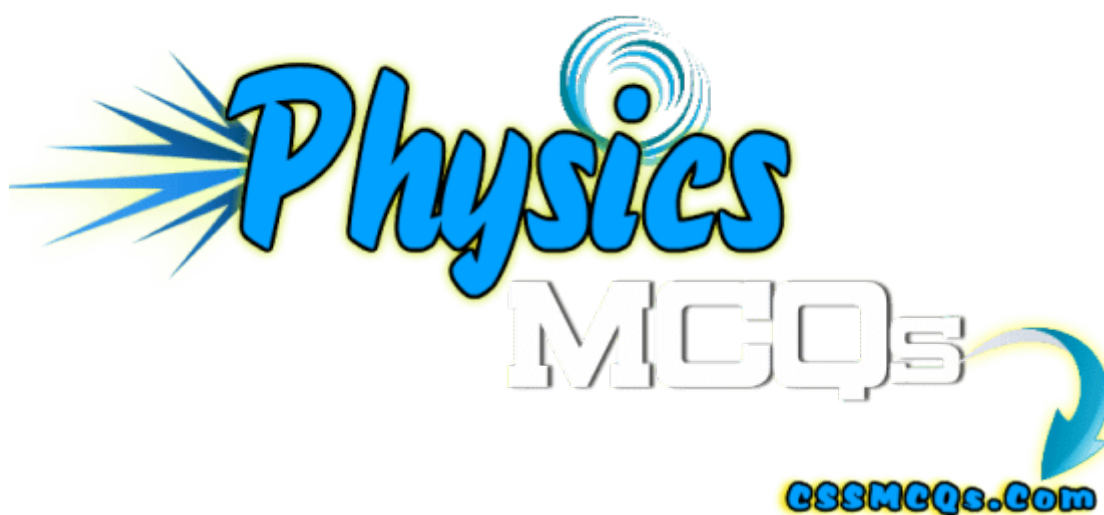
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