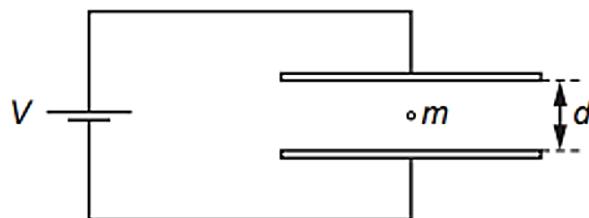


A charged oil drop of mass m , with a charge of ne , is held stationary in the uniform electric field between two horizontal plates separated by a distance d .



The voltage between the plates is V , the elementary charge is e and the acceleration of free fall is g .

What is the value of n ?

A

$$\frac{eV}{mgd}$$

B

$$\frac{mgd}{eV}$$

C

$$\frac{meV}{gd}$$

D

$$\frac{gd}{meV}$$

