

32 A charged particle of charge q and mass m is initially at rest in a uniform electric field. The field is produced by parallel metal plates separated by a distance d and having a potential difference V between them.

What is an expression for the acceleration of the charged particle?

A $\frac{md}{qV}$

B $\frac{mV}{qd}$

C $\frac{qd}{mV}$

D $\frac{qV}{md}$

33 When there is a current of 5.0 A in a copper wire, the average drift velocity of the free electrons is