

21 A spherical water droplet with density 1000 kg m^{-3} and diameter $1.20 \mu\text{m}$ is suspended in a uniform electric field. The electric field strength is 462 N C^{-1} and is directed downwards. How many excess electrons does it have?

A 1.92×10^{-17}

B 120

C 192

D 1.20×10^{11}