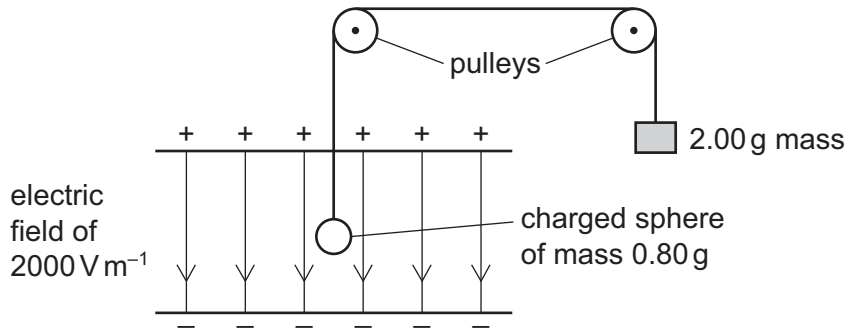


- 31** A small charged sphere of mass 0.80 g hangs from a light thread inside a vertical uniform electric field of strength 2000 V m^{-1} . The thread passes over two frictionless pulleys and a mass of 2.00 g hangs on the other end.



The sphere is in equilibrium.

What is the charge on the sphere?

- A** $-5.9\text{ }\mu\text{C}$ **B** $+0.60\text{ }\mu\text{C}$ **C** $+5.9\text{ }\mu\text{C}$ **D** $+9.8\text{ }\mu\text{C}$