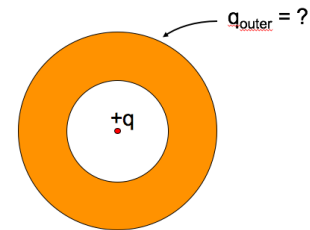


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- Click 'A' once you finish page 1
- Click 'B' once you finish page 2
- Click 'C' once you finish page 3

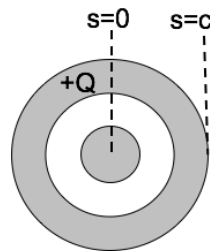
A neutral copper sphere has a spherical hollow in the center. A charge $+q$ is placed in the center of the hollow. What is the total charge on the outside surface of the copper sphere?
(Assume Electrostatic equilibrium.)



- A. Zero
- B. $-q$
- C. $+q$
- D. $0 < q_{outer} < +q$
- E. $-q < q_{outer} < 0$

A long coax has total charge $+Q$ on the OUTER conductor. The INNER conductor is neutral.

What is the sign of the potential difference, $\Delta V = V(c) - V(0)$, between the center of the inner conductor ($s = 0$) and the outside of the outer conductor?



- A. Positive
- B. Negative
- C. Zero