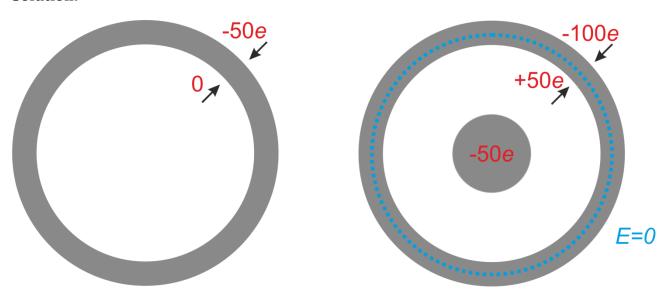
Answer on Question #73598 Physics / Electric Circuits

A ball with charge -50e is placed at the center of a hollow spherical shell has a net charge of -50e. What is the charge on the shell's outer space?

Solution:



Since the spherical shell is a conductor, the electric field inside shell is equal to zero. So the net charge inside spherical shell must be zero too. Thus the charge on the shell's inner space is +50e. Because the total charge of the shell is -50e, the charge on the shell's outer space is -100e.

Answer: -100e

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