
Change of dielectric with a source connected. An air-filled parallel-plate capacitor is attached to a voltage source. While the source is still connected, the space between the plates is completely filled by a dielectric slab ($\epsilon_r = 2$). In the new electrostatic state, the electric field intensity is

- (A) larger than,
- (B) the same as,
- (C) smaller than,

that in the air-filled capacitor.

Solution: (B)

Answer: (B)