
Arbitrarily shaped capacitor with and without dielectric. A capacitor with electrodes of arbitrary shapes has a homogenous dielectric of relative permittivity ϵ_r ($\epsilon_r > 1$). If the dielectric is removed (without changing the shape of the electrodes), the capacitance of the capacitor

- (A) increases.
- (B) decreases.
- (C) remains the same.
- (D) the answer depends on the actual shapes of the electrodes.

Solution: (B)

Answer: (B)