Capacitors with a nonlinear dielectric. Consider an arbitrary shaped capacitor with a nonlinear dielectric. The electric field intensity, electric flux density, and polarization vectors in the dielectric are \mathbf{E} , \mathbf{D} , and \mathbf{P} , respectively. At any point in the dielectric and for any field intensity, the following vectors are linearly proportional to \mathbf{E} :

- (A) **D** only.
- (B) P only.
- (C) Both \mathbf{D} and \mathbf{P} .
- (D) D P.
- (E) None of the above.

Solution: (D) Answer: (D)