

### Answer on Question #59302-Physics-Electromagnetism

The polarization of a dielectric material and the internal depolarizing field when it placed in an external field are

#### Answer

The polarization of a dielectric material and the internal depolarizing field when it placed in an external field are directed opposite to each other:

$$\vec{E}_{int} = -\frac{1}{3\epsilon_0}\vec{P}.$$