

solution electromagnetic theory vanderlinde pdf

An object with an electric dipole moment is subject to a torque $\vec{\tau}$, when placed in an external electric field. The torque tends to align the dipole with the field. A dipole aligned parallel to an electric field has lower potential energy than a dipole making some angle with it. For a spatially uniform electric field E , the torque is given by: $\vec{\tau} = \vec{p} \times \vec{E}$, where p is the dipole moment, and the symbol ...

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