$$\begin{array}{c} P_{1} = \chi \, \hat{a}_{\chi} + \gamma \, \hat{a}_{\chi} + O \, \hat{a}_{2} \\ P_{2} = \chi \, \hat{a}_{\chi} \, \overline{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \\ P_{2} = \chi \, \hat{a}_{\chi} \, \overline{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \\ P_{1} = \overline{P}_{1} - \overline{P}_{1} \, \overline{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \, \hat{a}_{\chi} \\ P_{1} = \overline{P}_{1} - \overline{P}_{1} \, \overline{a}_{\chi} \, \hat{a}_{\chi} \,$$

Xt: X-coordinate of test point

Q = charge of negative end of dipole X =: X - coordinate of negative end of dipole (b)

Q+: Marge of positive end of dipole Yes y-coordinate of positive end of dipole (b)

Out puts.

Et: electric field at test point