Miranjani R gyengar 2022/179 Physics Busertation Date VOUVA
Desire Claussins Masetti equation  3 relation between En [sulative permittinity and polarizability & of moleculus const thing dielectric  P = & E Tocal or internal Chipole money
polarizably e macroscopic = & [& gill Emac noscopic  Acrenty method    delectric
$E_{L} = N_{P} \frac{P}{4980} = N_{P}P = \frac{1}{3}P \left[for sphere}\right]$ $E_{local} = E_{ex} + E_{pol} + E_{L} + E_{poo}$ $= V_{pol} + P_{pol} = E_{majoro} + P_{pol}$

Elocal =  $E_{\text{mouropic}}$  [1+ $G_{0}(E_{N}-1)$ ]

Elocal =  $E_{\text{macro}}$  [1+ $G_{N}-1$ ] P = X Elocal = X Emacro [1 +
En Using P=Mp

E (En-1) E macro = NX E macro = Nd[1+ & 9-