Then DV - Pocost - w2 cos(wt-cor) - w sin (wt-wr) OV = -PO GSAW [W GS(Wt-Wr) + 1 SIN(Wt-Wr)] Comparing the expressions for TA oud Of we See that \$\frac{1}{A} = -\mu_0 & & which is the Lorenz Condition GRIFFITHS 11.2 Equotion M. 14 V(F,t) = w Po. F SIN(wb.wr) Equation M.17 A (r,f) = - 400 Po Sin (at-wr) Next we note that $\vec{p} \times \hat{r} = \vec{p} \sin \theta \hat{\phi}$ oud fx (Poxf) = PosnA (fxf) = - PosnA A

Equation 11.18 E(t,t) = Mow 7 7x (Poxt) agut-ur) Equation 11.19 B (f,t) = - tow Poxt coxut-ur Equetion 11.21 (B(F, f)) = 40 w (P) s r)