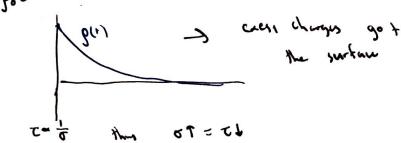
Week 7##

9.4 Absortion and Dispersion

And, the continuity equation (charge conservation)

$$\int_{0}^{2\pi} \frac{\partial f}{\partial t} = -\alpha \vec{\nabla} \cdot \vec{E} = \frac{2}{8} = \frac{$$

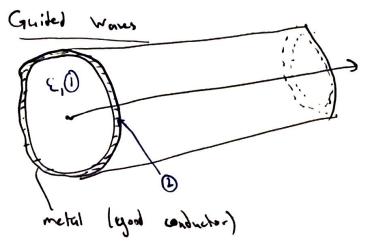


well consider only the processes that are slove than t => PF =0

how is energy totalooded between E and B weres

\[
\(\frac{1}{2} \left \frac{1}{2} \reft \frac{1}{2}

so what's happening to the electric field? the energy of the electric field goes into moring the free charges



Perfect conductor: => \(\hat{E} = 0 \) inside \(\langle \text{ by Finite } \text{ or Finite } \text{ or } \)

3B = 0 => B-Fiell inside the metal part is constant

Assum B=0 inchally => star at o Previously (to linear media)

B.C. E. E. = C. Ex

B1 = B12

 $E_{II_1}=E_{II_2}$ $E_{II_1}=E_{II_2}$

adjust for combuter in contact with dielectic

Dielectric in control with contactor