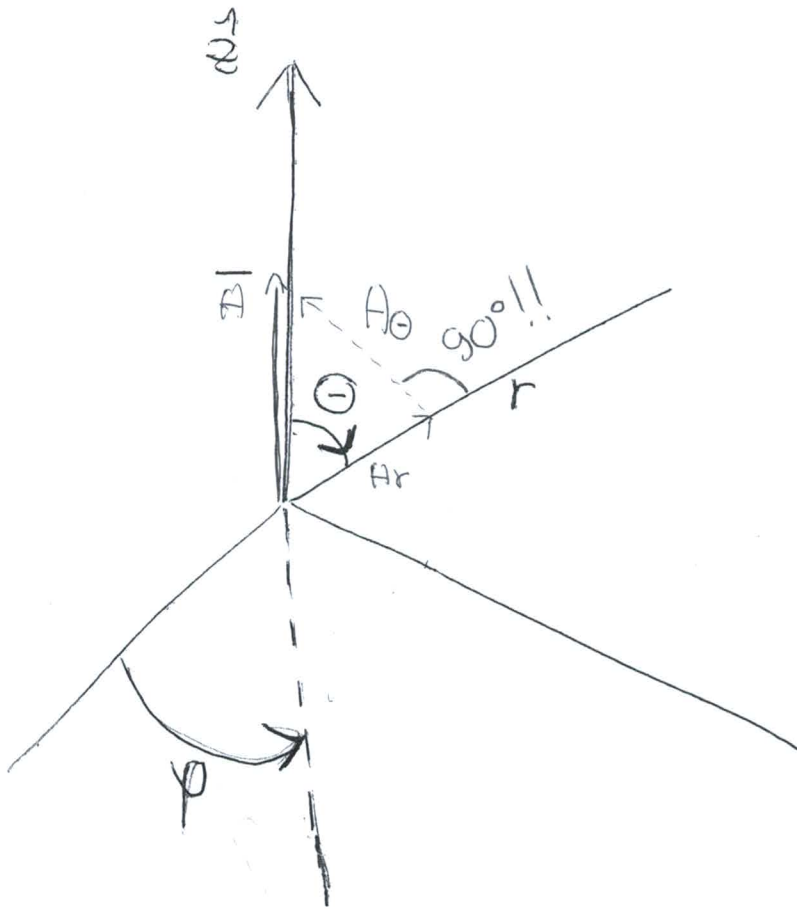


$B(r, \theta, t)$ at $d \ll \frac{c}{\omega} = \frac{\lambda}{2\pi} \ll r$

(2)



$$\vec{A}(r, \theta, t) = - \frac{\mu_0}{4\pi} \rho_c \frac{\omega}{r} \sin\left(\omega\left(t + \frac{r}{c}\right)\right) \hat{z} \quad // \quad \hat{z}$$

$\varphi = 0^\circ$ in our 2D model
or any other angle

$$A_r = A(r, \theta, t) \cos \theta$$

$$A_\theta = A(r, \theta, t) (-\sin \theta)$$

Follows right hand rule

