X The dechouogustic mouse

1. The Maxwell'sequations without sources

Methods:

$$\nabla \times (\nabla \times \vec{E}) = \nabla \times (-\frac{\partial \vec{B}}{\partial t}) = -\frac{\partial (\nabla \times \vec{B})}{\partial t} = \frac{\partial (\nabla \times \vec{B})$$

 $\nabla x (\vec{b} \times \vec{c}) = \vec{a} (\vec{b} \cdot \vec{c}) - (\vec{a} \cdot \vec{b}) \cdot \vec{c}$ $\nabla x (\vec{b} \times \vec{c}) = \nabla (\nabla \vec{c}) - (\nabla \nabla) \vec{c}$ $\nabla x (\vec{b} \times \vec{c}) = \nabla (\nabla \vec{c}) - (\nabla \nabla) \vec{c}$

enon exponentate (=

$$\frac{D^2B}{Dt} = -\omega^2Bu\sin(\omega t - kx)$$

$$\frac{D^2B}{Dt} = dB = \lambda B \cos(\omega t - kx)$$

$$\nabla \hat{b} = \frac{d\hat{b}}{dx} = k\hat{B}_{m} \cos(\omega t - kx)$$

V2B - 12 102B =0

Dog - To Dog =0

72B- no 80 102B =0

72B = dB = - KBm sin (we-kx)

 $B(x'+) = -\frac{m_5}{1} \frac{0+5}{05} = -\frac{K_5}{1} \Delta_5 B$

 $V = \frac{2\pi}{\lambda}$ $\Rightarrow \frac{V}{\omega} = \frac{2\pi}{\lambda} = \frac{1}{\lambda}$ $\omega = \frac{2\pi}{\lambda}$ $\omega = \frac{2\pi}{\lambda}$

The section of electromagnetic,

5th Maxwell equation

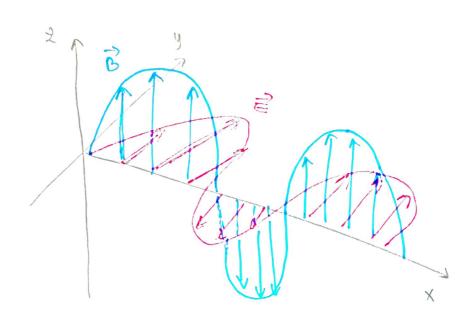
$$\nabla \hat{b} = \frac{d\hat{b}}{dx} = k\hat{B}_{m} \cos(\omega t - kx)$$

$$\nabla x = \frac{1}{2} \cdot \frac{1}{2}$$

Em=C.Bm

E = C . B

EXAM .

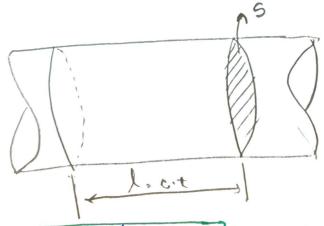


3. The destromagnétic vouce intensity

$$\int \frac{dw}{dx} = \frac{1}{5} \left(\frac{dw}{dx} \right)^{\frac{1}{2}}$$

W: more every

< > : the time average



Nose: with and t

density of mergy

$$w = \left\langle \frac{dw}{d(s \cdot c \cdot t)} \right\rangle_t$$

$$W = \frac{1}{c} \cdot \frac{1}{5} \left(\frac{dw}{dt} \right) t$$

$$V = I$$

$$w_e = \frac{\varepsilon_0 \varepsilon^2}{2} = \frac{\varepsilon_0 c^2 \beta^2}{2} = \frac{\varepsilon_0 c^2 \beta^2}{2\varepsilon_0 k_0} = \frac{\beta^2}{2k_0} = w_m$$

$$= \sum_{i=0}^{\infty} \frac{1}{2} \cdot \frac{1}{8} = \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{8} = \frac{1}{2} = \frac{1}{2} =$$

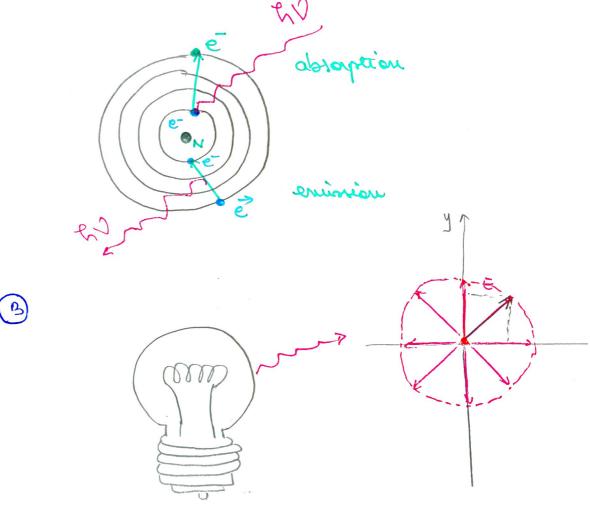
$$\vec{\beta} = \vec{c} \in \vec{\epsilon} \times \vec{\epsilon}$$

the POINTING recetor

(points along the direction of propagation of the

$|\overrightarrow{\beta}| = \overline{1}$

- 4. The planization of light
 - 1 The description and emission of eight

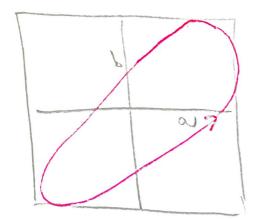


$$\begin{cases}
E_{x} = 0 \sin(\omega t - \varphi_{x}) \\
E_{y} = b \sin(\omega t - \gamma_{y})
\end{cases}$$

$$\frac{E_{x}}{a} = \sin(\omega t - \gamma_{x})$$

$$\frac{E_{y}}{b} = \sin(\omega t - \gamma_{x})$$

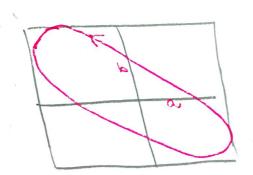
Note
$$\Delta f = fx - fy$$
 $Ey = \sin(\omega t - fx)\cos pf + \cos(\omega t - fx)\sin pf$
 $Ex = \sin(\omega t - fx)\cos pf + \cos(\omega t - fx)$
 $Ey = Ex \cos pf = \sqrt{1 - 2\cos p}\cos pf$
 $E^2 + E^2 \cos^2 pf - 2\cos pf = (1 - E^2 x)\sin^2 pf$
 $E^2 + E^2 \cos^2 pf - 2\cos pf = \sin^2 pf$
 $E^2 + E^2 \cos^2 pf - 2\cos pf = \sin^2 pf$
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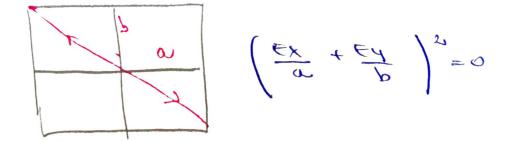


original positions and light

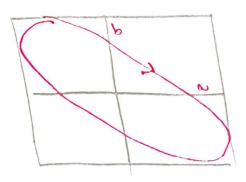
$$m = \frac{\pi}{2}$$

$$\frac{\epsilon_{\lambda}^{2}}{a^{2}} + \frac{\epsilon_{\lambda}^{2}}{b^{2}} = 1$$

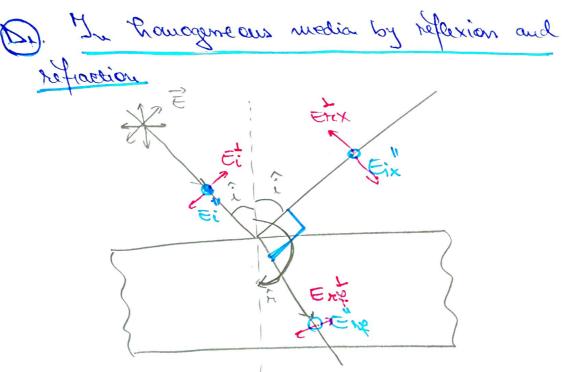




11 T C D 9 2 3I



(B) Methods to produce a polarized



equilibrated a senasort

Exist =
$$-\frac{1}{2}i \cdot \frac{1}{2}(i-k)$$

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The refracted ray is perpendicular on the reflected ray, then the refracted ray is lanearly polarized.

and it to = 20

$$\frac{1}{12} = \frac{1}{12} = \frac{1}{12}$$

16= the BREWSTER angre