Acryon 4.2 (1) (1) (1) (1) (1) (1) (1) (1) (2) (2) (2) (3) (3) (1) (1) (1) (2) (2) (2) (3) (2) (2) (3) (3) (3) (2) (3) (4

To nest a \in 7 aprilling tan on The hasp. I use to fine (2 jm 745 (poper 700 E): $\vec{E} = \vec{V} \cdot \vec{E}_{V}(z)$ use $\vec{H} = -\hat{x} \cdot \vec{H}_{V}(z)$

a) To it inoversiti tyv e7. Helmheltz:

$$(\vec{\nabla}^{2} + h^{2}) \hat{H}_{x} = -\vec{J}_{x} \vec{\nabla}^{2} = 0 \implies \frac{\vec{\partial}^{2} \hat{H}_{x}}{\vec{\partial}^{2} \hat{L}^{2}} + k^{2} \hat{H}_{x} = 0 \implies \begin{cases} \hat{H}_{x}^{(1)} = A_{1} e^{-jk_{2}} + B_{1}^{2} e^{jk_{2}} \\ \hat{H}_{x}^{(2)} = A_{2} \cos(k_{2} + B_{2} \sin(k_{2})) \end{cases}$$

- And ovolique one antipo reportanti B1=0, a upod a apos B1ejkt tappeden uita nou bioblibria reas apreprior to, regista address oftoffico ou, rugi pelasuas ory dens Z=h wi ipa viev represent (1) ra vietono da Eistitonal popo res ra aive.
- · And Note Maxwell Ampère de Giver:

$$\frac{\partial \chi}{\partial x} = \frac{1}{J} + \int_{\omega} k_{0} E \xrightarrow{\varepsilon} \frac{\partial \psi}{\partial x} = \frac{\partial \psi}{\partial x} + \left(\frac{\partial H}{\partial x} - \frac{\partial \psi}{\partial x}\right) \cdot \frac{\partial \psi}{\partial x} + \left(\frac{\partial H}{\partial x} - \frac{\partial \psi}{\partial x}\right) \cdot \frac{\partial \psi}{\partial x} + \left(\frac{\partial H}{\partial x} - \frac{\partial \psi}{\partial x}\right) \cdot \frac{\partial \psi}{\partial x} = \int_{\omega} k_{0} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} = \int_{\omega} k_{0} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} = \int_{\omega} k_{0} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} = \int_{\omega} k_{0} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} = \int_{\omega} k_{0} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} \cdot \frac{\partial \psi}{\partial x} = \int_{\omega} k_{0} \cdot \frac{\partial \psi}{\partial x} \cdot$$

Ensaphuod yaroffra, onice Ey = 0 color Him HASTULE, Agu 700

• Oplany ovolyny to z=0: $\frac{2}{5}x\left(\frac{1}{5}E_{2y}(z=0+)-\frac{1}{5}E_{3}(z=0-)\right)=0$ \rightleftharpoons $=\frac{1}{5}E_{2y}\left(z=0+\right)=0 \stackrel{(4)}{\rightleftharpoons}\frac{1}{5}E_{2}h=0 \Rightarrow B_{2}=0 \quad (5)$

Οριουμή συνθήμη μα z=h: $\hat{z} \times (\hat{y} E_{1}y (z=h^{+}) - \hat{y} E_{2}y (z=h^{-})) = 0$ \Rightarrow $-\hat{x} E_{1}y (z=h^{+}) + \hat{x} E_{1}y (z=h^{-}) = 0$ \Rightarrow (3), (4) (4), (5) (5), (6) (6), (6) (7), (8) (8), (8) (9), (9) (

7

Think,
$$j_{1x} = h \cdot \frac{1}{2} \times (\hat{H}_{1}(z=h^{+}) - \hat{H}_{2}(z=h^{-})) = \hat{k}$$

$$= \frac{1}{2} \times (-\hat{\chi} \hat{H}_{1x}(z=h^{+}) + \hat{\chi} \hat{H}_{2x}(z=h^{-})) = \hat{\chi} \hat{k}_{0} = \hat{\chi} \hat{k}_{0}$$

$$= -\hat{\chi} \hat{H}_{1x}(z=h^{+}) + \hat{\chi} \hat{H}_{2x}(z=h^{-}) = \hat{\chi} \hat{k}_{0} = \hat{\chi} \hat{k}_{0}$$

$$= \hat{H}_{2x}(z=h^{-}) - \hat{H}_{1x}(z=h^{+}) = \hat{k}_{0} = \hat{k}_{0}$$

(1), |e| $A_{LGS}(kh) - A_{1} = \hat{k}_{0} = \hat{k}_{0} = \hat{k}_{0}$

Or oplants audijuts bivour us oxforts (5), (6), (7) une fit xpyay ourvis monumente ons TIS (1) ... (4) 70 Affis 070 xwpo.

(4,03)

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HX = An cas (Ex) + Brighter (1)

of the spiritual obsiders out

. And soverfull are groups when Bis Deterg

TX# = I + June É CAME - (ME

B) Opioius pet apri apourmon or avolantes oxform per ou appixes (11 voi (2): Hx = Azejtx (1)

HX = Azcos(kz) + Basin (kz) (2)

EVID = - hAI e-jk& (3)

Ex) = of (-Azk sinkz + Bzkcerhz) (4) The Nist Maximell - Ampère de crion:

Op. Sub: { A1 e^jkh = A2 sh(kh) (6) A2(0)(kh) - A1e^jkh = k. (7)

Mileor, y op. avd. (9) SEV Anophi un approvable line 90 2=0 70 Atlin Της περιοχή (3) δεν ότων προ μηδενινό. Tripo, and Attops (3): = j = j = j = E(3)

Aps, on so Nya Maxwell-Ampère de Exaft on:

 $\nabla \times \hat{H}^{(s)} = J \vec{E}^{(s)} + j \omega \varepsilon \vec{E}^{(s)} = (J + J \omega \varepsilon) \vec{E}^{(s)} = j \omega \varepsilon' \vec{E}^{(s)} \qquad (8), \quad \xi' = \xi + \frac{1}{J \omega}$

(B) => VxHC = jwc'E(s) (2H2) x+ (2Hx - 2H2) x+ (2Hx - 2H2) x+ = () High) 2 = Just E(3) 4 D

(9)

ESW, 80 Given: (\$\vec{7}^{2} + \vec{1}^{2}\right) \vec{H}^{(3)} = 0 \end{area} \frac{1}{2} \vec{1}{2} \vec{1}{

(9) =)
$$\dot{E}_{Y}^{(3)} = \frac{1}{\int_{\omega_{E}}} B_{jj} k' e^{jk' z}$$
 (41)

Two, Ht run op. on.
$$7=0$$
: $\frac{1}{2}x(9 \stackrel{.}{E}_{24}(2=0+)-9 \stackrel{.}{E}_{34}(7=0+))=0$ $\stackrel{.}{=}$ $\stackrel{.}{E}_{24}(2=0+)=\stackrel{.}{E}_{34}(2=0+)=\stackrel{.}{E}_{34}(2=0+)=0$ $\stackrel{.}{=}$ $\stackrel{.}{E}_{34}(2=0+)=\stackrel{.}{E}_{34}(2=0+)=0$ $\stackrel{.}{=}$ $\stackrel{.}{=}$

(8) Open su et perifere 20 K 612 75 w/s alista téro, es K/20 =0.

Mèson 700 0p. ond. (6), (7), (12), (13) ponimed a nó (1), (2), (31, (4, (4)), (10) 70

ntéir no xipo.

Aoryon 4.8

Elvar == 2 Esin = sin = cosut 46 == 2 Esin = sin = sin

HMK

Ani Nifo Moxwell - Faradory on nebio rus organismos da fina!

\[
\begin{picture}
\text{T} \times \\ \displace = -j \cup fish \\ \displace = -j

$$\frac{\partial E_{2}}{\partial y} = j \omega f_{0} \dot{H}_{X} \quad (1)$$

$$\frac{\partial E_{2}}{\partial y} = j \omega f_{0} \dot{H}_{X} \quad (1)$$

$$\frac{\partial E_{2}}{\partial x} = + j \omega f_{0} \dot{H}_{Y} \quad (2)$$

$$\frac{\partial E_{2}}{\partial y} = j \omega f_{0} \dot{H}_{X} \quad (1)$$

$$\frac{\partial E_{2}}{\partial y} = - j \omega f_{0} \dot{H}_{X} \quad (2)$$

$$\frac{\partial E_{2}}{\partial y} = - j \omega f_{0} \dot{H}_{X} \quad (2)$$

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$$\frac{\partial E_{2}}{\partial y} = - j \omega f_{0} \dot{H}_{X} \quad$$

Drief,
$$\vec{H} = \vec{X} \left(\frac{10}{10} \sin \frac{\pi}{10} \cos \frac{\pi}{10} \right) + \hat{q} \left(-\frac{1}{10} \cos \frac{\pi}{10} \sin \frac{\pi}{10} \right)$$
, on so fixely $\sin \frac{\pi}{10} \sin \frac{\pi}{10} \cos \frac{\pi}{10} \sin \frac{\pi}{10} \sin$

The TIS Enlyworks nuavoynes prishous: · E(x=0) = x x (#(x=0+)-0) = x x / (-in sin) = -7 in sin) 'Ap., K(x=0) = Re(K(x=0) ejut) => K(x=0) = 2 17 Jin 1 Sinut · E(x=a) = x x (0-H(x=a-)) = -x x y (+ in sin 0x) = -2 in sin 0x Apa, $\vec{k}(x=0) = \mathbb{P}e^{\vec{k}(x=0)}e^{i\omega t}$ $\Rightarrow \vec{k}(x=0) = \hat{\epsilon} \frac{\pi}{\omega t^{-\alpha}} \sin \frac{nx}{b} \sin \omega t$ · K(y=0 = fx (\vert) -0) = \vert x \(\frac{\intro}{\text{who}} \sin \frac{\text{x}}{\text{who}} \sin \frac{\text{x}}{\text{who}} \sin \frac{\text{x}}{\text{who}} \sin \frac{\text{x}}{\text{who}} 'Apa, E(y=0)=Re[K(y=0)] = IC(y=0)= 2 upob sin a sinut • \vec{k} $(y=b) = \hat{y} \times (o - \hat{\mu}(y=b^{-})) = -\hat{y} \times \hat{x} \left(-\frac{in}{4bb} \sin \frac{nx}{6}\right) = -\hat{z} \frac{jn}{4bb} \sin \frac{nx}{4}$ 'Apr, \(\bar{k} (y=b) = \bar{L}e \bar{k} \bar{k} (y=b) = \frac{2}{w+sb} \sin \bar{k} \sin \bar{ · K (1=0) = 2 x(H(2=0)-0) = 2 xx(1/10 sin x a xx) + 2 xy (-10 sax sin x) = Apr. [(z=d=le) [(z=dejut) = [(z=dejut)] = f Tupbsin x 48 x sinut -x The Lark sin of sinwh · K(z=c) = 2 (0-H (l=c)) = -2 × x(III sin & cary) -2 × V(-In cary sin by)= = -ý (JT SIN 2 (01 17) + x (-j? 62 12) M B) "Apo, E(z=0) = De | E(z=0 eint) => E(z=c) = julob sin & south sin wh +X The MAS SW AX SINNT

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Five , E1 = -9 Kowto sin mx cos(w) +Bz) posses not E1 = -9 Kowto sin mx eiBz ; 200

has
$$\widehat{H}_2 = \widehat{x} \frac{k_0}{3} \sin \frac{nx}{T} \cos (\omega t - \beta_2) + \frac{1}{2} \frac{17k_0}{2\beta l} \cos \frac{nx}{T} \sin (\omega t - \beta_2)$$
 und

$$\vec{H}_2 = \hat{x} \stackrel{\text{Ko}}{=} \sin \frac{nx}{T} = i \frac{B^2}{2R^4} + \hat{z} - \frac{ink_0}{2R^4} \approx \frac{nx}{T} = i \frac{B^2}{2R^4}, 2 > 0.$$

$$\nabla_{x} \vec{E}_{i} = -j_{i} \nu_{b} \vec{H}_{i} \stackrel{\text{Log7.}}{=} \left(\frac{\partial \vec{E}_{i} \vec{v}}{\partial y} - \frac{\partial \vec{E}_{i} \vec{v}}{\partial z} \right) S + \left(\frac{\partial \vec{E}_{i} \vec{v}}{\partial z} - \frac{\partial \vec{E}_{i} \vec{v}}{\partial z} \right) Y + \left(\frac{\partial \vec{E}_{i} \vec{v}}{\partial x} - \frac{\partial \vec{E}_{i} \vec{v}}{\partial x} \right) z =$$

$$= \int_{i} \nu_{b} \vec{H}_{i} \vec{v} = \int_{i} \nu_{b} \vec{H}_{i} \vec{v} = 0$$

$$\frac{\partial \vec{E}_{i} \vec{v}}{\partial x} = -j_{i} \nu_{b} \vec{H}_{i} \vec{v} = 0$$

$$\frac{\partial \vec{E}_{i} \vec{v}}{\partial x} = -j_{i} \nu_{b} \vec{H}_{i} \vec{v} = 0$$

Einer
$$H_1(x,y,t) = Pe\left\{H_1e^{j\omega t}\right\} = Pe\left\{-\frac{x}{2}\sin\frac{nx}{2}e^{j(\beta_2+\omega t)} - \frac{y_1}{2}\frac{y_1}{2\beta_1}\cos\frac{ny}{2}e^{j(\beta_2+\omega t)}\right\}$$

$$= H_1(x,y,t) = -\frac{x}{2}\frac{k_0}{2}\sin\frac{nx}{2}\cos(\omega t + \beta_2) + \frac{y_1}{2}\frac{pk_0}{2\beta_1}\cos\frac{nx}{2}\sin(\omega t + \beta_2), 2co.$$

$$\nabla_{x} \vec{H}_{x} = \vec{j}^{o} + j \omega_{\xi}_{0} \vec{E}_{z} \qquad \frac{k \omega_{\xi}_{0}}{\delta y} \left(\frac{\partial H_{2x}}{\delta y} - \frac{\partial H_{2x}}{\partial z} \right) \hat{x} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial x} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}}{\partial z} - \frac{\partial H_{2x}}{\partial z} \right) \hat{y} + \left(\frac{\partial H_{2x}$$

(3) = Ezz= 1 (kg (-jB) sin TX e jet - jnko. p. sin TX e jet) Oright, Ez = - y (Kop sin M e-iB2 + Kon2 sin M e-f2) Firm, Ez(x,z,H = fe) Ez ejul] = fe)-y' (Koß sin pr e (Bx +w+) + kon2 sin pr e j(w+-A))

2wlo pp. sin pr e j(w+-A) => Ex(x,z,t)=-y(KoB sin M as (ut-pz) + Kon2 sin M as (ut-pz) 700 B) Êxw, k (7=0) = 2 x (Hz (7=0+) -Hz (7=0)) = 2 x (x ko s ln ko + 2 -inko cos nx + 1 ko + 0x + 1 loko + 0x + 1 lok + x 2 sin T +2 jnko (or TX) = お E(two = ý を sinが +ý を sinが かだ(two = ý kosinが Apr, K(Z=0) = Re/K(Z=0) ejul) => K(Z=0) = j Kovin j cosult Aughn, $\dot{\sigma}(z=0)=\hat{z}(\hat{D}_{L}(z=0)-\hat{D}_{L}(z=0))=\xi_{0}(\hat{z}=0)-\xi_{0}(\hat{z}=0)=0$ H oplous subjus 245 opris dompres na papilos by HNE | man Giver 2 (\$\frac{1}{2} \frac{1}{3}) \rangle = -\bar{\tau}. \bar{k} - justo \ightarrow \bar{\tau} \bar{k} = 0 \end{arrange} $\frac{\partial \dot{k}}{\partial x} + \frac{\partial \dot{k}}{\partial y} + \frac{\partial \dot{k}}{\partial z} = 0 = 0 = 0 = 0, \text{ now ight , ip a final, of in any order of its order.}$