Compos EM de Una Cerga Pandual Conegamers com una carga em l'epousos.

Sabener que carge $f_0 \in G$ unitades E = 1 + 2 + 6 $E_0 = 1$ $E_$ Polemen organizar on campa no terser de Fooder/ Fpr $F_{yy} = \begin{pmatrix} 0 & -E_{x} & -E_{y} & -E_{z} \\ E_{x} & 0 & B_{z} & -B_{y} \\ E_{y} & -3_{z} & 0 & B_{x} \\ E_{z} & B_{y} & -B_{x} & 0 \end{pmatrix}$ No norse cerso temas es = x.x. $F_{0i} = -F_{i0} = -\frac{1}{\sqrt{\sqrt{2}}} \frac{4}{\sqrt{\sqrt{2}}} = \frac{1}{\sqrt{\sqrt{2}}} \frac{2}{\sqrt{\sqrt{2}}} = \frac{1}{\sqrt{2}} \frac{2}{\sqrt{2}} = \frac{1}{\sqrt{2}} \frac{2}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{$ outers componentes zeram.

Fre é un tersor: se tonslerne seb basss de acade com Fm > V b V a to tower de Faraday nun novo Vames tomer A como um toost na direção x con relocidado V, s.e., $O O = \sqrt{1 - \sqrt{2}}$ $\beta = \frac{V}{c} = V$ $\int_{0}^{8} = \bigwedge_{1}^{4} = \int_{1}^{8} \bigwedge_{2}^{3} = 1$ direis Zelam Vones então calabor Frenh Vo Fpo

Cono Fr = - Fyn, Fr = - Fyn. De ledo, FMV = NPNJ FPJ = - App AV For = - N J N F T = F Vn Loso, a diagonal de Fise amba e vole que Fise-Fio, Fise-Fis E e B Calaleres Foi. Paca ; El (componente x), terres For = 1 of 1 for = 10 0 1 0 F 00 + 10 1 0 F 10 $F_{00} = 0$ $A_{1}^{7} = A_{1}^{3} = 0$ $= \left(A_{1}^{7} + A_{2}^{3} = 0\right)$ $= \left(A_{1}^{7} + A_{2}^{3} = 0\right)$ (our espande a = 3 = 0

 $F_{01} = \left(\sqrt{2} - \chi^2 z\right) F_{01}$ / O - E, ? ? = For => Fiz Ex 0 ????

A segnic, fagaman For. ????? Foz = No 11 / Z Fpg = 10° 12° F00 + 10° 12° F10 = (1 00 - 1 v 1 7 F 10 Analogarense, tom-se Foz =) Foz $\log_{2} r^{2}$ $\mathcal{E}_{x} \qquad 0 \qquad ?$ $\delta \mathcal{E}_{y} \qquad 7 \qquad 0 \qquad ?$ $\delta \mathcal{E}_{y} \qquad 7 \qquad 0 \qquad ?$ $\delta \mathcal{E}_{z} \qquad 7 \qquad 0 \qquad ?$

Persa colubernes as componentely do compo magnético.

De Lavre générica terren E; = N; P N o F po = 1. ° 1. ° Foo + 1, ° Fko Fko Pois $F_{co}=0$ $= \bigwedge_{j}^{0} \bigwedge_{j}^{0} F_{co} + \bigwedge_{j}^{0} \bigwedge_{j}^{0} F_{ho}$ 3=0 = 1, 1, h Foh - 1, h Foh $= \left(\bigwedge_{j=1}^{n} \bigwedge_{j=1}^{n} \bigwedge_{j=1}^{n} \bigwedge_{j=1}^{n} \bigwedge_{j=1}^{n} \bigwedge_{j=1}^{n} \bigwedge_{j=1}^{n} \bigcap_{j=1}^{n} \bigwedge_{j=1}^{n} \bigcap_{j=1}^{n} \bigcap_{j=1}^{n}$ $B_{\times} \left(F_{23} \right) \qquad \Lambda_{3}^{\circ} = 0$ $F_{23} = \left(N_2 \circ N_3 - N_3 \circ N_2 \right) F_{01}$ B, (F31) 13°20 F_{3} : $\left(\frac{1}{3} \right) \left(\frac{$

 $= \begin{cases} \sqrt{\Lambda_3} & F_{oh} \\ = \sqrt{V} & \Lambda_3 & F_{o3} = \sqrt{V} & F_{o3} = -\sqrt{V} & F_{e} \end{cases}$

 $B_{z}(F_{12})$ Fizi (Mingh - Minh) For = - VV For Ey FI D - Ex PEY

Ex O VEY

VEZ - VEZ

O r Ey (Ez YVEz Assim, terrs, 70 exemplo, $E'_{\gamma} = \frac{1}{4\pi} \frac{1}{\sqrt{x_{o}^{2} + \frac{2}{6}}} \frac{3}{\sqrt{c}}$ Lexpalse was acostonados originais Translamenção das coorderades.

Délinindo $\mathcal{R} = \times + Vt = (\times + Vt)$, que aponta da quitimba as ponto de medisco, terenos entros

$$\mathcal{R} = \frac{1}{4m} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}}} \sqrt{\frac{7}{17}} \sqrt{\frac{7}{17}}} \sqrt{\frac{7}{$$

Resta expresser à compo magnético. Viner que É; = Ex B'x = O E'y = OEy
B'y = -1 v Ez

BZ= VBZ

 $\frac{3}{3} = \frac{3}{1} \times \frac{3}{1}$

Assim,

Ver tombémi

D.3. Grillishs (2017) An Introduction to Electrolynamics (CUP, Cambridge).