Παραδείχμα Ι A = ; Αναφορά: Ã(z=0)=0 M = Mo 2 = M. $\vec{M}_z = 0$ (2) Επίλυση με εξιοώσεις Β $\vec{J}_{M_1} = \vec{\nabla} \times \vec{M}_1 = 0$ JM2 = 0 Km(z=0) = 2 × (M, - M2) = 0 $\vec{k}_{M}(z=h) = \hat{z} \times (\vec{M}_{z} - \vec{M}_{t}) = 0$ Σημειακές 6χέδεις Β : ∇×Β, = μ. 2+ μ. Jm, = 0 $\nabla \cdot \vec{\beta}_{12} = 0$ nx(B2-B1) = 40K+40Km = 0 (x1a ==0 x' == h) n. (Be-B1)=0 (x10 2=0, h) Apa B1,2 = 0 $\vec{B} = \mu_0 \vec{H} + \mu_0 \vec{M} = \vec{H}_{1,2} = \vec{B}_{1,2} - \vec{M} = \vec{H}_1 = -M_0 \hat{z}, \vec{H}_2 = 0$ [M]=[H]=Alm B= Vx A , 8/2x, 8/24=0 0= \$\hat{v} \times \frac{\beta}{36} - \epsilon \frac{\beta}{3} - \beta \times \beta \cdot 0= xA6 2 Ay = 0 V. A = 0 ⇒ 0 = sA6 (60vonun Coulomb) Az = Cz 0 = 5A6 Cx1 = 0 , A, (z=0) = 0 (Ax1, Ay1, Az1) = 0 Cx, Cy, Cz, 21 $\vec{A}_2(7(0) = 0 \Rightarrow Cx = 0 , \vec{A}_3(7) = 0$

$$J_{H_1} = \nabla x M_1 = \frac{\partial x}{\partial x} \hat{y} - \frac{\partial y}{\partial x} \hat{z} = 0$$

$$\vec{J}_{M_2} = 0$$
 ($\delta_1 \vec{o} \cdot \vec{\tau}_1 = \vec{M}_2 = 0$)
 $\vec{K}_M(z=0) = \hat{z} \times (\vec{M}_1 - \vec{M}_2) = M_0 \hat{y}$
 $\vec{K}_M(z=h) = \hat{z} \times (\vec{M}_2 - \vec{M}_1) = -M_0 \hat{y}$

$$\nabla \cdot \vec{B}_{1,2} = 0 = 0$$
 $\frac{\partial \vec{B}_2}{\partial z} = 0$

$$\frac{\partial B_{4}}{\partial z} = 0$$
 \Rightarrow $\frac{\vec{B}_{1x}}{z} = C_{1x}$, $\frac{\vec{B}_{2x}}{z} = C_{2x}$

$$z=0$$
: $\hat{n} \times (\hat{B_1} - \hat{B_2}) = \mu_0 \hat{K} + \mu_0 \hat{K}_M = \mu_0 M_0 \hat{V}$ = $\hat{B_1} \times -\hat{B_2} \times = \mu_0 M_0$

$$\vec{z} \cdot (\vec{B_1} - \vec{B_2}) = 0$$

$$-B_{14} + B_{24} = 0$$

$$B_{16} - B_{26} = 0$$

$$\vec{z} \cdot (\vec{B}_2 - \vec{B}_1) = -\mu_0 M_0 \hat{y}$$

$$\vec{z} \cdot (\vec{B}_2 - \vec{B}_1) = 0$$

$$B_{2x} - B_{1x} = -\mu_0 M_0$$

$$= -\mu_0 M_0$$

Z- GUVIGTWGQ : BIZ = CIZ, BZZ = CZZ u' Bi, 2, B2, 2 GUVEXN GTQ Z=0, h Apa C12 = C22 у- συνιετώεα: Оногея Ларапприегь, ара Сту=Сгу X - GUVIGTWGO: BIX = CIX, B2X = CRX 2=0: Bix - Bax = 40 Mo => C1x - C2x = 40 Mo ibia Eliewan Z=h: Με C2x ελεύθερη παράμετρο Bax = Cax Bix = HoMo +Cix ∞--5 or onA Kµ(₹--∞) = K(≥=0) + Kµ(₹=h) + (Ja; d≥ =0 2---V x B2 = 0 7.B2=0 0.Σ. - Ο ρεύμα Annies = Bz (-00) = 0 = 1 C2x = 0 B2=0, B1 = 40Mox

The rimes on
$$I = I_1 + I_2$$
 (2)

Terminate $I_1 = \mu_2 - \mu_1 I_1 = 2\mu_1 I_2 = 2\mu_1 I_1$
 $\mu_2 + \mu_1 = \mu_2 + \mu_1$

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Enadandia vojuw Amper

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