



4300270

Gabarito – Lista de Exercícios 6
 Campo Magnético

E7.2 $\mathbf{E} = 1,22 \times 10^5 \text{ V/m} (\hat{\mathbf{x}} - \hat{\mathbf{z}})$

E7.6 (A) $\nu_c = 1,4 \text{ MHz}$; (B) $\nu_c = 1,1 \times 10^{12} \text{ Hz}$; (C) $\nu_c = 2,8 \times 10^{18} \text{ Hz}$

E7.7 $r = 1,7 \text{ }\mu\text{m}$

E7.8 $r = 1,0 \text{ m}$

E7.10 (A) $0,652 \text{ m}$; (B) $4,91 \text{ m}$

E7.11 $V = 81,9348 \text{ V}$

E7.12 $v_a = 5,00 \times 10^{-5} \text{ m/s}$

E7.15 (A) $I = 6,3 \times 10^8 \text{ A}$; (B) $I = 3,2 \times 10^{23} \text{ A}$

E7.16 (A) $0,63 \text{ J/T}$; (B) zero; (C) $0,063 \text{ Nm}$

P7.1 (C) $6,1 \text{ mm}$

P7.8 (C) $\sigma = \kappa \epsilon_0 B J / n e$, sendo κ a constante dielétrica da barra

P7.9 (A) $\mathbf{F} = a I B_0 \hat{\mathbf{x}}$; (B) $\tau = 0$

P7.12 $\boldsymbol{\mu} = a I (b \mathbf{k} + c \mathbf{j})$

P7.14 $\pi \omega \rho L (b^4 - a^4) / 4$