



4300270

Gabarito – Lista de Exercícios 4
 Capacitores

E4.2 26 km .

E4.5 (A) $C = 8,0 \text{ pF}$, (B) $E = 1,2 \times 10^6 \text{ V/m}$

E4.8 (A) 27 nJ; (B) $0,13 \text{ mJ/m}^3$

E4.13 5,0 pF

P4.5 $2,2 \times 10^{-6} \text{ N}$

P4.7 (B) 8 mJ

P4.8 $y = \left(\frac{\ln(b/a)q^2}{4\pi\epsilon_0 mg} \right)^{1/2}$

P4.13 (A) $C_0 = \frac{\epsilon_0 L^2}{d}$; (B) $C_{1/2} = 3C_0/2$; (C) $C_1 = 2C_0$.

P4.14 $F = \frac{q^2 d}{2\epsilon_0 L(L+x)^2}$