12 to 12 25.66 | serway 2=a=1.0m modelo: Flujo electrico sistema: Flamento 3 x=a+1=3.0m a)1 part. -> x=2,00 m Q=1.6 nC D12 port. -> x = 15,25m, q = 0.8nc 3 c) 4 part -> x= 1.25, 1.75, 2.25, 2.75 m 9= 0.4nC $d\phi = 1 \lambda dx'$ X, d= 1 (Ln(L+a)-Ln(a) 4REOL 1.6 X109 7.19 V $\left(\frac{0.8 \times 10^9}{1.5} + \frac{0.8 \times 10^{-9}}{2.5}\right) = 7.67 \text{ V}$ 6) 0= 1 4ne c) $\phi = \frac{1}{4\pi\epsilon_0} \left(\frac{0.4\times10^9}{1.25} + \frac{0.4\times10^9}{1.75} + \frac{0.4\times10^9}{2.25} + \frac{0.4\times10^9}{2.75} \right) = 7.84 \text{ V}$ $\frac{2+1}{1}$ = 7.90 12 V d) Ø= 1 471E0 7.81 × 100 = 99.2%

3

1

13