

carga elementar  $\Rightarrow$

0

PROCESSOS  
DE  
ELETRIZAÇÃO

por atrito  $\Rightarrow$

por contato  $\Rightarrow$

por indução  $\Rightarrow$

Carga elétrica  $\Rightarrow$

(cargas antes e depois)

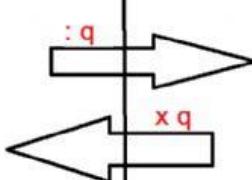


Linhas de Campo saí da carga  $\Rightarrow$

... chega na  $\Rightarrow$

Força elétrica

$F =$



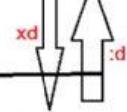
Campo Elétrico

$E =$

$1,6 \cdot 10^{-19}$

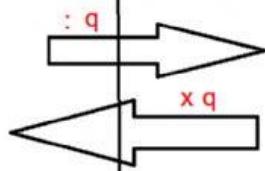
$Q = n \cdot e^-$

Campo elétrico uniforme  $\Rightarrow$



Energia Potencial elétrica

$E_{pe} =$



Potencial elétrico

$V =$

Capacitores:  
Capacitância:

Capacitância:  
tendo ddp (U)

$1,6 \cdot 10^{-19}$

$Q = n \cdot e^-$

$\frac{k \cdot |Q|}{d^2}$

$\frac{k \cdot |Q|}{d}$

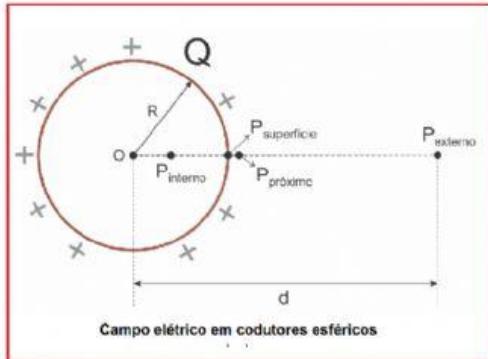
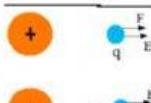
$\frac{k \cdot |Q| \cdot |q|}{d}$

$\frac{k \cdot |Q| \cdot |q|}{d^2}$

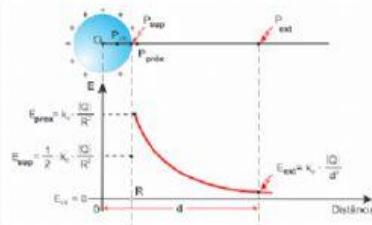
$C = k \epsilon_0 \frac{A}{d}$

$C = \frac{Q}{V}$

Sentido do Campo e Força  
conforme sinal da carga de prova



Resumo Gráfico:



$E_{ext} =$

$k_0 \cdot \frac{|Q|}{d^2}$

$E_{sup} =$

$k_0 \cdot \frac{Q}{d}$

$E_{int} =$

$\frac{1}{2} \cdot k_0 \cdot \frac{|Q|}{R^2}$

$E_{prox} =$

$k_0 \cdot \frac{|Q|}{R^2}$

$V_{ext} =$

$k_0 \cdot \frac{Q}{R}$

$V_{int} = V_{sup} =$

zero

