Module 6 - Particles and medical physics

capacitance and capacitors

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

$$C = \frac{\varepsilon_0 A}{c}$$

$$C=4\pi\varepsilon_0R$$

$$C=C_1+C_2+\dots$$

$$\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2} + \dots$$

$$W = \frac{1}{2}QV$$
; $W = \frac{1}{2}\frac{Q^2}{C}$; $W = \frac{1}{2}V^2C$

$$\tau = CR$$

$$x = x_0 \mathrm{e}^{-\frac{t}{CR}}$$

$$x = x_0(1 - \mathrm{e}^{-\frac{t}{CR}})$$

electric field

$$E = \frac{F}{O}$$

$$F = \frac{Qq}{4\pi \varepsilon_0 r^2}$$

$$E = \frac{Q}{4\pi\varepsilon_0 r^2}$$

$$E = \frac{V}{d}$$

Vandr known Qunkown

 $V = \frac{Q}{4\pi \varepsilon_0 r}$

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D Siedentop

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