

### GUIA DE ECUACIONES PARA ETS DE FISICA 3

$$F = K \frac{q_1 q_2}{r^2} \quad \epsilon = \epsilon_0 \epsilon_r$$

$$E = \frac{F}{q} \quad V = \frac{T}{q} \quad V = \frac{Kq}{r} \quad EP = K \frac{Q * q}{r} \quad V_{ab} = \frac{T_{ab}}{q} \quad V = Ed$$

$$C = \epsilon \frac{A}{d} \quad C = \frac{Q}{V} \quad C_t = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} + \dots + \frac{1}{C_n}} \quad C_t = C_1 + C_2 + C_3 + \dots + C_n$$

$$I = \frac{q}{t} \quad I = \frac{V}{R} \quad R_t = R_1 + R_2 + R_3 \dots + R_n \quad R_t = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}}$$

$$P = VI \quad P = I^2 R \quad P = \frac{V^2}{R}$$

<b>1 Coulomb</b>	<b><math>6.25 \times 10^{18}</math> electrones</b>
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$$q_e = 1.6 \times 10^{-19} \text{ Coulomb}$$

$$\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2 / \text{Nm}^2$$

$$K = 9 \times 10^9 \text{ N} \cdot \text{m}^2 / \text{C}^2$$