

Diego Eduardo
Cruz Aguilar

FISICA II

5+0 CUATRIMESTRE

$$6. - V = 1 \cdot 1 \cdot 1 = 1^3$$

$$V = (0.2 \text{ m})^3 \quad a) \underline{V = 0.008 \text{ m}^3}$$

$$b) E = \rho_e \cdot V$$

$$E = (9800 \text{ Nw/m}^3) (0.008 \text{ m})$$

$$\underline{E = 78.4 \text{ Nw}}$$

$$c) \rho_{AP} = \rho - e$$
$$\rho_{AP} = 655'' - 78.4 \text{ N}$$

$$\underline{\underline{\rho_{AP} = 576.6 \text{ Nw}}}$$

3.

$$Q = 7.06$$

$$A = 1256.6$$

$$F = \frac{F}{Q} \cdot A$$

$$F = \frac{180}{7.06} \cdot (1256.6)$$

$$F = 32037.9 \text{ Nw}$$

$$A = 706.85 \text{ //}$$

$$= 3.14 \text{ //}$$

$$2. \quad F = \frac{F}{A} \cdot a$$

$$F = \frac{35000}{706.85} \cdot (3.14) = 153.47 \text{ N}$$

1. Datos

$$F =$$

$$A = 100 \text{ cm}^2$$

$$a = 15 \text{ cm}^2$$

$$F = 200 \text{ N}$$

$$F = \frac{F}{A} \cdot A \quad F = \frac{200 \text{ N}}{15 \text{ cm}^2} (100 \text{ cm}^2)$$

$$F = 1333.3 \text{ N //}$$

$$2. \quad V = 10 \text{ m}^3$$

$$Q = 40 \text{ Lt/sec}$$

$$T = \frac{10 \text{ m}^3}{40 \text{ Lt/sec}}$$

$$40 \text{ Lt/sec}$$

$$T = 0.25 \text{ s //}$$

$$10. \quad \phi = \frac{V}{t}$$

$$\phi = \frac{1800 \text{ L}}{1}$$

$$\phi = 1800 \text{ //}$$

$$9. \quad \phi = \frac{V}{t}$$

$$\frac{2}{4} = 0.5 \text{ m}^3/\text{s //}$$