EXUE SISTELL' ELENGERUS PEN INGEGNENIS FISICA" 10/01/2020

$$\int_{0}^{2} \int_{0}^{2} \int_{0$$

$$\beta = 900 \text{ lg/m}^3$$
 $\Delta t = 1 \text{ m}$
 $\frac{51}{52} = 4$ $O_1 = 0.3 \text{ m}$
 $\frac{52}{52}$
 $V_{OL} = 3 \text{ m}^3$ $P_2 = 1 \text{ base}$

$$-\frac{EQ.CONTINUITÀ}{m} \left(STATIONNIO \right) m_1 = m_2 = m$$

$$m = \int S_1 V_1 = \int S_2 V_2 = D V_1 = \frac{m}{\int S_2}$$

$$\frac{V_1}{V_2} = \frac{S_2}{S_1} = \frac{1}{4}$$

$$S_1 = \frac{\pi O_1^2}{4} = 0,0707 \text{m}^2 \Rightarrow V_2 = 2,358 \text{m/s} \quad V_2 = 9,431 \text{ m/s}$$

$$V_1 = S_1 V_1 = S_2 V_2 = V_2 = 0,167 m^3/5$$

$$P_{1} = \left[\frac{P_{2}}{f} + \left(\frac{V_{2}^{2}}{2} - \frac{V_{1}^{2}}{2}\right) + g\left(\frac{1}{2} - \frac{1}{2}\right)\right] = 1,463 \text{ bev}$$

$$|\vec{G}| = Vol. \int g = 26487N \quad G_{x} = 0 \quad G_{z} = -26487N$$

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$$T_{1} = P_{1}.S_{1} = 10345N$$
 $T_{1,x} = 0$
 $T_{1,z} = -10345N$
 $T_{2,x} = 0$
 $T_{1,z} = -10345N$

$$|\overrightarrow{M}_{3}| = |\overrightarrow{m}_{1} \vee 1 = 353, 7 | M_{2} \times = 0 \qquad M_{2} \times = 353, 7 | M_{2} \times = 353, 7$$