Esenitorione 6 - Centrilugal Comprensor

Exercises

$$\dot{m} = 3 \frac{kg}{s}$$

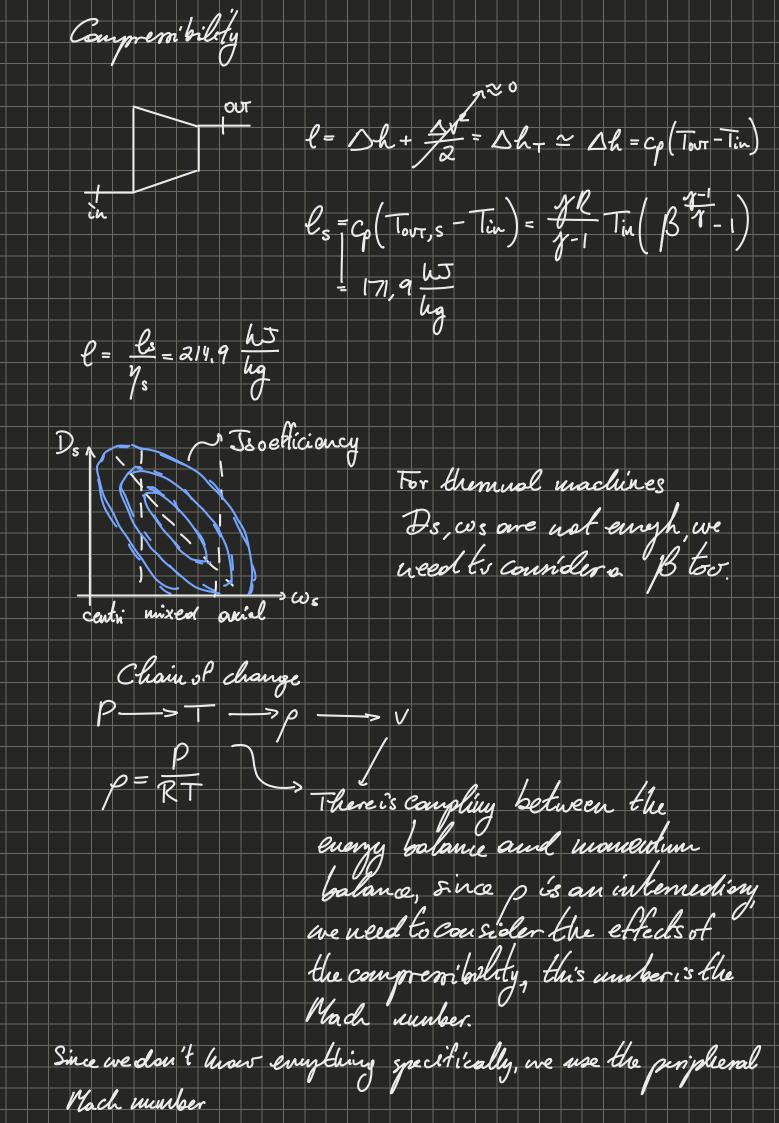
Pow = 5 bar 7 B = 5 Pin = 3 bar J B = 5

Tin= 20°C-2931

a) 
$$\gamma_{is} = 0.8$$

l= ?

D=? From Balje



$$M_{u} = \frac{\omega R_{z} \rightarrow \omega_{z}}{\sqrt{y R T_{t,in}}}$$

$$\omega_s = \frac{\omega \sqrt{Q}}{\Delta h s^{3/4}}$$

$$D_{s} = D \frac{1/4}{\sqrt{Q}}$$

$$w_{s}D_{s} \int_{C} \frac{1}{\sqrt{Q}}$$

$$M_{u} = \frac{\omega_{s}D_{s}}{2} \sqrt{\frac{\beta^{2}-1}{y^{-1}}}$$

$$= M_{u}(\omega_{s}, D_{s}, \beta)$$

Theretwood - Some weed to fix either Mu or foto fixed blefine our system.