

$$\sum F_{x} = \frac{\partial}{\partial t} \left(\int_{Cv} \rho u dV \right) + \int_{CS} u \rho(\overline{V} \cdot \widehat{n}) dA$$

$$\sum F_{y} = \frac{\partial}{\partial t} \left(\int_{Cv} \rho w dV \right) + \int_{CS} v \rho(\overline{V} \cdot \widehat{n}) dA$$

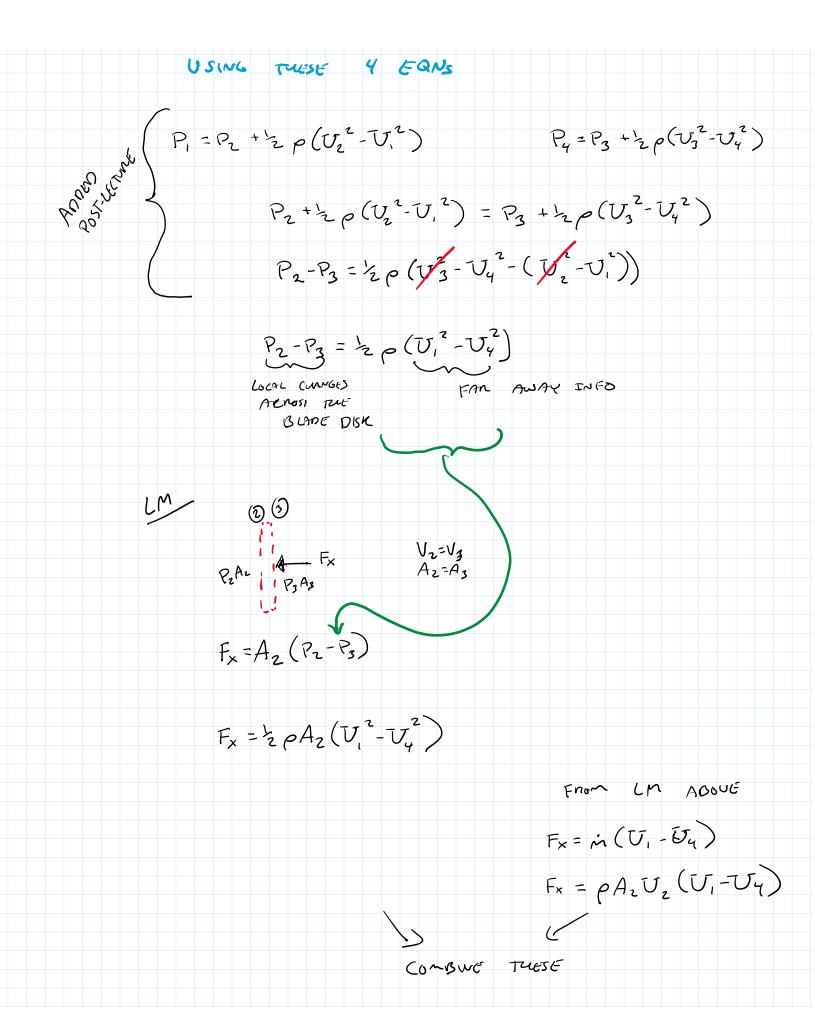
$$\sum F_{z} = \frac{\partial}{\partial t} \left(\int_{Cv} \rho w dV \right) + \int_{CS} w \rho(\overline{V} \cdot \widehat{n}) dA$$

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$$F_{x} = V_{x} \left(\rho AU \right)_{t} - V_{y} \left(\rho AU \right)_{y}$$

$$F_{x} = M \left(U_{x} - U_{y} \right)$$

$$F_{x} = M$$



$$\frac{1}{2} \sum_{i} \sum_{j} \left(U_{i}^{2} - U_{i}^{2} \right) = \sum_{i} \sum_{j} \left(U_{i} - U_{i}^{2} \right)$$

$$\left(U_{i} + U_{i}^{2} \right) = U_{i} \left(U_{i} - U_{i}^{2} \right)$$

$$\frac{1}{2} \sum_{j} \left(U_{i} + U_{i}^{2} \right) = U_{i} \left(U_{i} + U_{i}^{2} \right)$$

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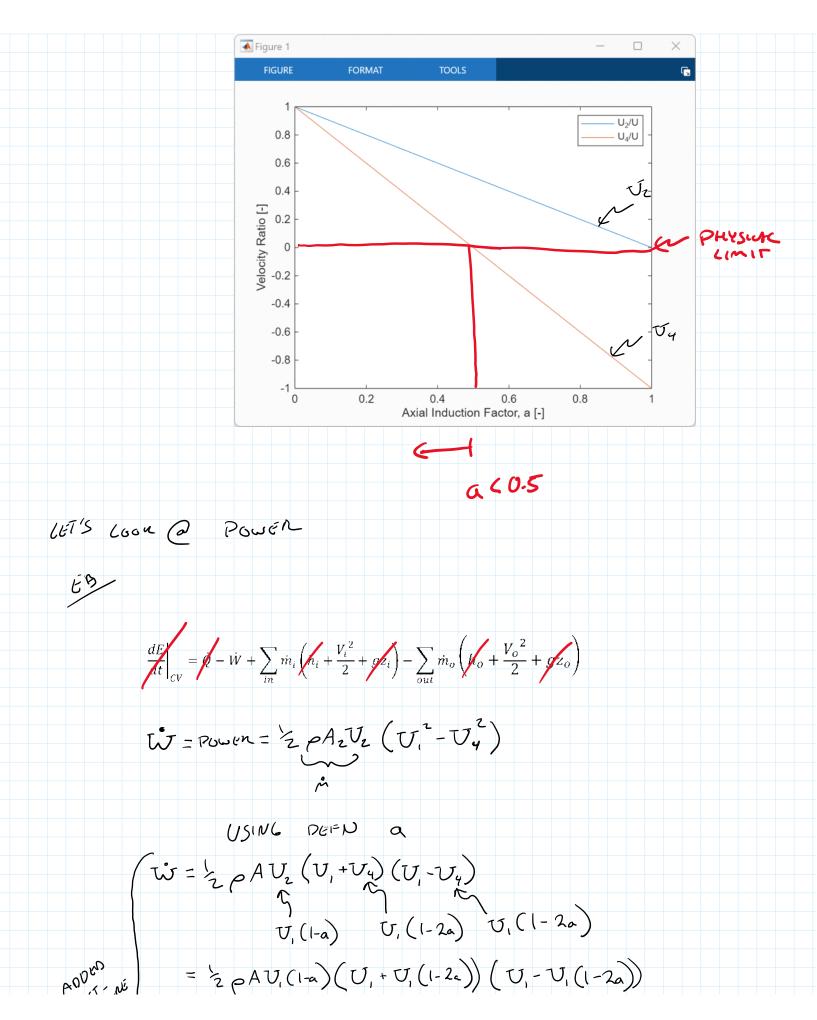
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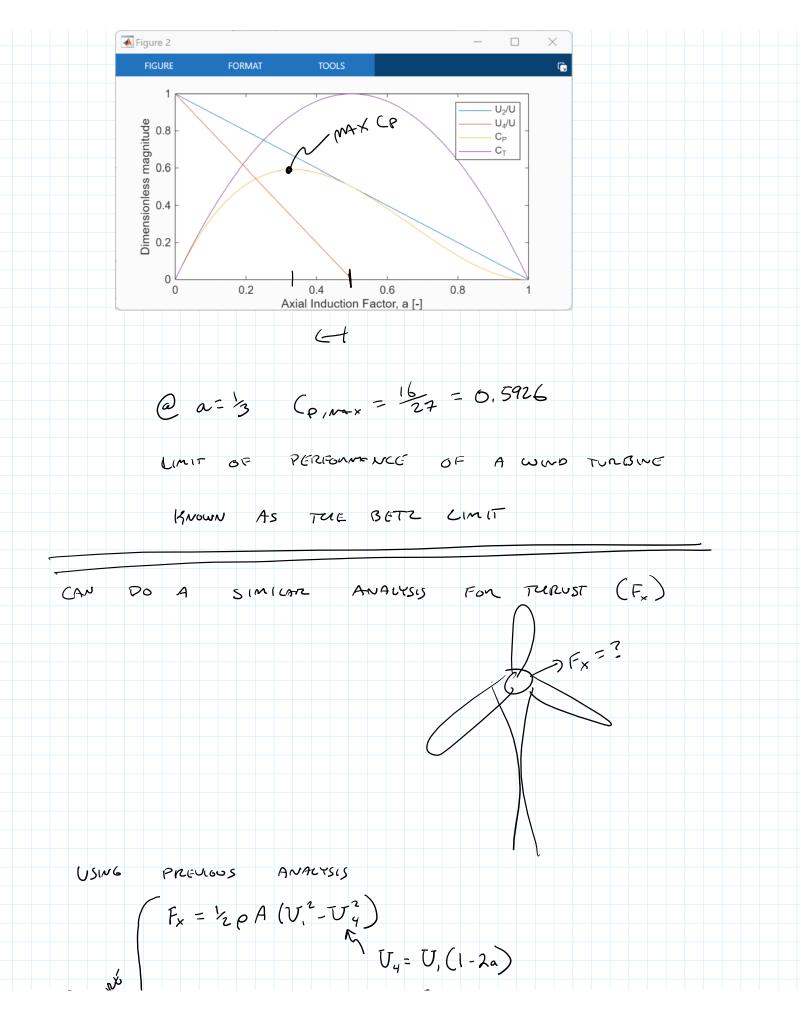
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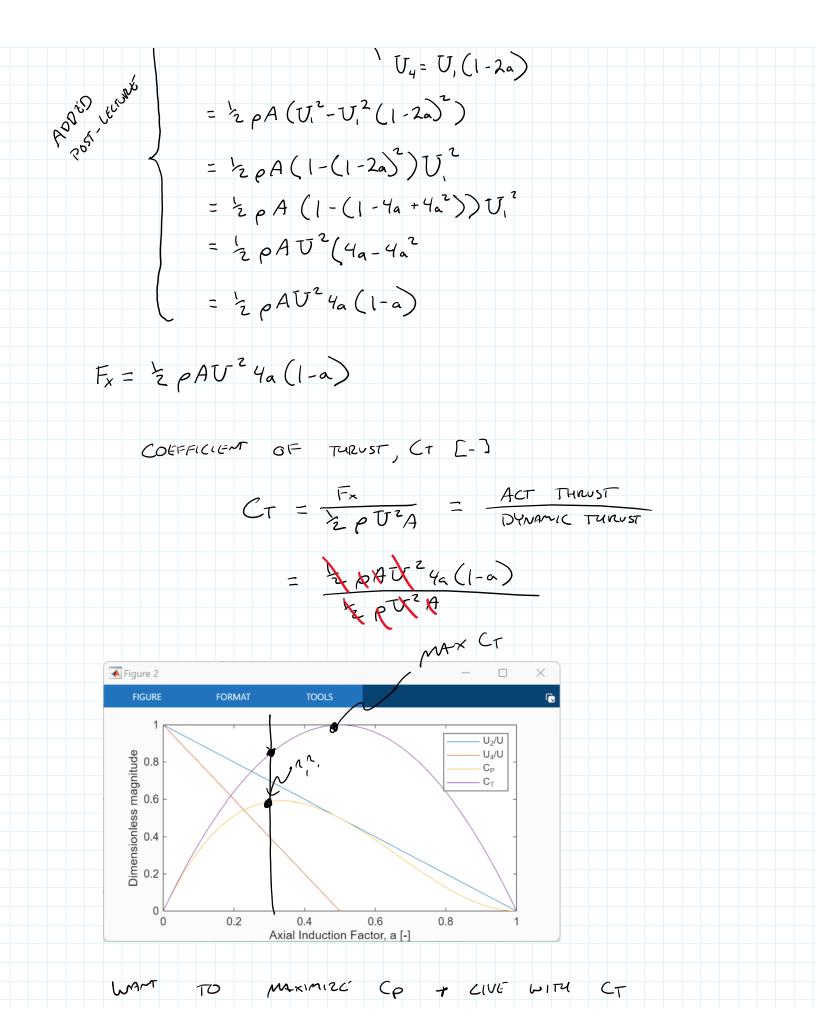
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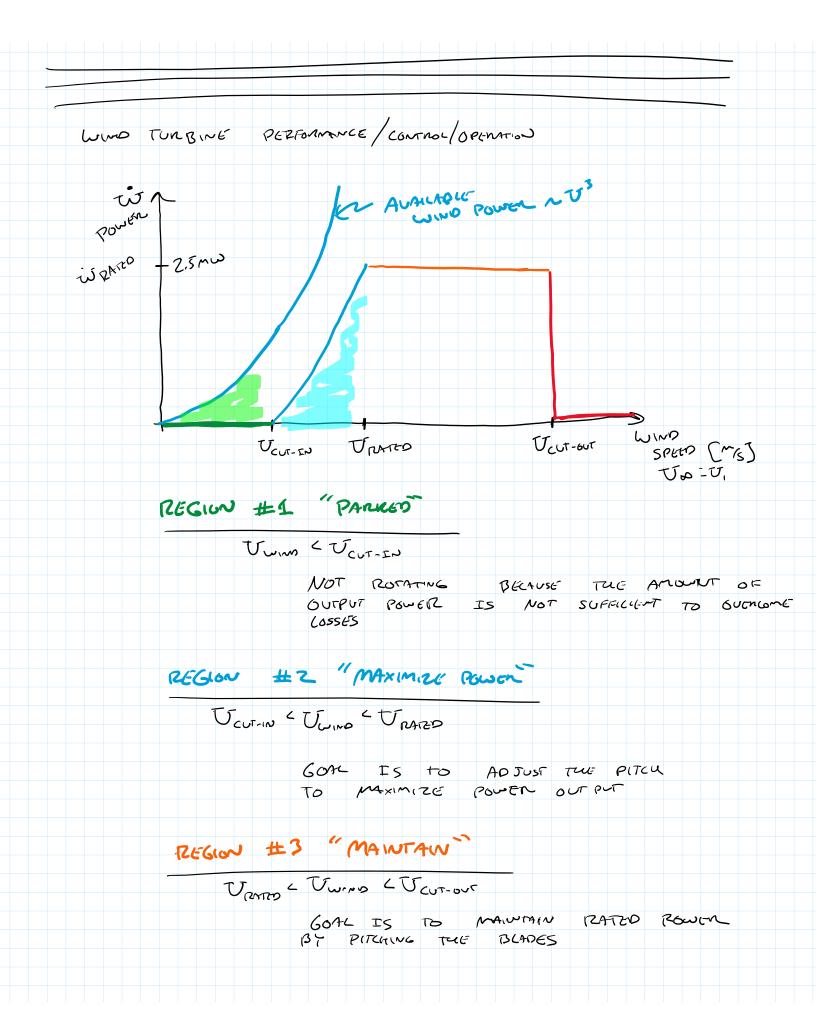
$$\frac{1}{2} \sum_{j} \left(U_{i} + U$$



$$\begin{array}{l} \left(\begin{array}{c} \rho_{0} \rho_{0} \\ \rho$$







REGION #4 " SHUT DOWN" JULIUS > JCUT-OUT BLADES ARE PITCHED IN GARDEN TO PRIVENT STRUCTURAL DAMAGE. NO RETATIONAL UELOCITY :. To =0