

$$\int 1 - f_{i-1} = 1 - Q_{i-1} = 0$$

$$\begin{bmatrix}
A_i \\
A_i
\end{bmatrix}$$

$$\frac{1}{2} \int_{\mathbb{R}^{k}} \frac{1}{2} \frac{1}{k} \int_{\mathbb{R}^{k}} \frac{1}{k} \int_{\mathbb{R}^{k}}$$

Solve D with gauss-Seidel

$$\frac{A_1}{A^*} : \frac{A_2}{A^*} \qquad \frac{A_1}{A^*}$$

$$\frac{h_2}{4!}:5.32 => M_2 = 9.99$$

2) M2 = 0.55696 3) M2 = 035467

$$\frac{df}{f} + \frac{du}{u} + \frac{dA}{A} = 0$$

$$\frac{dP}{P} = \frac{dP}{d} + \frac{dT}{T}$$

Monday, April 12, 2021 3:05 PM

$$\frac{dP}{f} + udu = 0$$

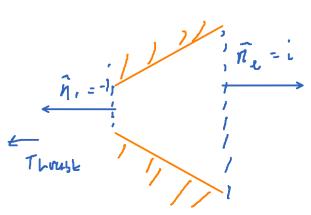
$$\frac{dP}{P} = \frac{dS}{S}, \frac{dT}{T} \qquad \frac{G(M_a)}{G(M_i)} \frac{Ae}{Ai} = > Me$$

$$T_{+;}^{i} = \left(1 + \frac{r_{-1}}{2} M_{1}^{2}\right) T_{+;}^{i} = 316.224 \text{ k}$$

$$P_{+;}^{i} = \left(1 + \frac{r_{-1}}{2} M_{1}^{2}\right) P_{i}^{i} = 140548.043 \text{ pa}$$

$$P_{+;}^{i} = \left(1 + \frac{r_{-1}}{2} M_{1}^{2}\right) P_{i}^{i} = 140548.043 \text{ pa}$$

$$T_{l} = \frac{T_{+}e}{l_{+} \frac{y-l}{2} M_{e}^{2}} = 315.593$$



$$\frac{df}{f} + \frac{du}{u} + \frac{dA}{A} = 0$$

$$\frac{df}{g} + udu = -\frac{2u}{g}A + \frac{1}{2}$$

$$C_{p}dT + udu = f_{g} \cdot s_{p}$$

$$\frac{df}{f} = \frac{df}{g} \cdot \frac{dT}{dT}$$

$$\Gamma(M,^{2}) \circ \left\{ \frac{1 \cdot T^{2}}{(1 \cdot YM_{1}^{2})^{2}} \right\} M_{1}^{2} = .036175$$

$$T_{4} = T_{1}(H \cdot T^{2}M_{1}^{2}) = 290.304 \quad f_{4} := 104190.5846p9$$

$$T_{10} = 1 + \frac{9}{C_{p}} T_{10} = 1 + \frac{1026}{C_{p}} T_{10} = 1 + \frac{1026}{C$$

+hrust = -[m(ue-ui)+(Pe-Pi) Ae] =[8.3 3476 (388.465-68.0348)+ (74600.60408-101325),(61)]

5-1.775638 N Harust

$$\frac{df}{f} + udu = -\frac{2w}{f} e dx + 26w$$

$$\frac{df}{f} + udu = -\frac{2w}{f} e dx + 26w$$

$$\frac{df}{f} + udu = -\frac{2w}{f} e dx + 26w$$

$$\frac{df}{f} = \frac{df}{f} + \frac{dT}{T}$$

$$f(M_1^2) = -\frac{2}{1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{M_1^2} \right] - \frac{1}{M_1^2} = -2[.128]$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{1 + \frac{r_1}{r_1} M_1^2}{r_1 + \frac{r_1}{r_1} M_1^2} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{r_1}{r_1} \frac{r_1}{r_1} \frac{r_1}{r_1} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{r_1}{r_1} \frac{r_1}{r_1} \frac{r_1}{r_1} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{r_1}{r_1} \frac{r_1}{r_1} \frac{r_1}{r_1} \frac{r_1}{r_1} \frac{r_1}{r_1} \right] - \frac{1}{M_1^2} = -2[.128] \end{cases}$$

$$\begin{cases} f(M_1^2) = -\frac{r_1}{r_1} \ln \left[\frac{r_1}{r_1} \frac{r$$

U0 = 68 .0348 m/s

$$\frac{df}{f} + \frac{du}{u} + \frac{dA}{A} = 0$$

$$\frac{df}{f} + udu = -\frac{2w}{f} + \frac{dx}{A} + \frac{2}{f}$$

$$C_{p}dT + udu = f_{q} + \frac{dx}{f}$$

$$\frac{df}{f} = \frac{dg}{f} + \frac{dT}{T}$$

$$\frac{df}{f} + udu = -\frac{2w}{fA} = 0$$

$$\frac{df}{f} + udu = -\frac{2w}{fA} = 2c_p c_f (Tw - T_+) \frac{dx}{dx}$$

$$\frac{df}{f} = \frac{df}{f} + \frac{df}{f} \frac{df}{f} + \frac{df}{f} = \frac$$

No work interaction or Area variation

$$\frac{df}{f} + \frac{du}{u} + \frac{dA}{A} = 0$$

$$\frac{df}{f} + udu = \chi fw, \chi = 1$$

$$\frac{T_{rr}}{\tau_{el}} = 1 + \frac{W_{1 \to 2}}{C_{p} T_{+1}} + T_{1} = T_{1} \left(1 + \frac{\gamma - 1}{L} M_{1}^{2}\right) = \left(1 + .2 + .5^{2}\right) \cdot 288 = 302.4 \, \text{k}$$

$$\frac{T_{+2}}{T_{T_1}} = 1 + \frac{10e6}{1004.5(302.4)} = 4.2921 \implies T_{\tau_2} = 1297.92026 \text{ K}$$

$$P_{2} = \frac{P_{+2}}{(1 + \frac{Y-1}{2} M_{2}^{2})} r / r / \frac{1}{2} = \frac{19522651.36 \, pa}{19522651.36 \, pa}$$

$$T_2 = \frac{1}{1 + \frac{1}{2} M_2^2} = \frac{1294.78848 \, \text{K}}{(1 + \frac{1}{2} M_2^2)}$$

-(8.334(79.319467 -170.87)+ 19640903.66 (.005)-101325*.1)=-86717.77616 N

$$\frac{df}{f} + \frac{du}{u} + \frac{dA}{A} = 0$$

$$\frac{df}{f} + udu = -\frac{r_{w} e}{dx} + \frac{r_{w}}{f} = 0$$

$$\frac{df}{f} + udu = -\frac{r_{w} e}{dx} + \frac{r_{w}}{f} = 0$$

$$\frac{df}{f} + udu = -\frac{r_{w}}{f} = 0$$

$$\frac{df}{f} = \frac{df}{f} + \frac{df}{f} = 0$$

$$\frac{df}{f} = \frac{df}{f} + \frac{df}{f} = 0$$

$$\frac{df}{f} + \frac{df}{f} = 0$$

$$\frac{df}{f} + udu = -\frac{r_{w}}{f} = 0$$

$$\frac{df}{f} + \frac{df}{f} = 0$$

$$\frac{df}{f} + udu = -\frac{r_{w}}{f} = 0$$

$$\frac{df}{f} +$$

=> in(p (T+-T+1)

Tuesday, April 13, 2021

4:06 PM

$$\frac{df}{f} + \frac{du}{u} + \frac{dA}{A} = 0$$

$$\frac{df}{f} + udu = -\frac{2w}{f} + \frac{dx}{A} + \frac{h}{h} + \frac{h}{h}$$

Work interaction with area variation with irreversibility with convective heat transfer. i.e., all the terms

$$C_{p}dT_{+} = 9 + W$$

$$9 = C_{p}dT_{+} - W$$

$$\dot{Q} = [C_{p}dT_{+} - W] \dot{M}$$