

$$\tau_w = \mu \frac{\partial u}{\partial y}_{y=0} = \mu \frac{U}{\delta} \frac{\partial(\frac{u}{U_e})}{\partial(\frac{y}{\delta})}_{y=0} = 2 \mu \frac{U_e}{\delta}$$

$$\tau_w = \rho U_e^2 \frac{d\theta}{dx} \rightarrow 2 \mu \frac{U_e}{\delta} = \rho U_e^2 + \frac{2}{15} \frac{d\delta}{dx} \quad \delta \, d\delta = 15 \frac{\mu}{\rho U_e} dx$$

$$\frac{\delta^2}{2} = 15 \frac{\mu}{\rho U_e} x + C_1 \quad \xrightarrow{x=0 \rightarrow \delta=0 \rightarrow C_1=0} \quad \delta(x) = \sqrt{\frac{30 \mu x}{\rho U_e}} \rightarrow \frac{\delta}{x} = \frac{5.48}{Re_x^{\frac{1}{2}}}$$

$$\begin{aligned} \delta(x) &= \sqrt{\frac{30 \nu x}{U_e}} \rightarrow \delta(x = 0.03) = \sqrt{\frac{30 + 1.56 \cdot 10^{-6} + 0.03}{30}} \\ &= 9.4 \cdot 10^{-4} \, m \quad \rightarrow \quad \delta^* = \frac{1}{3} \delta = 3.127 \cdot 10^{-4} \, m \end{aligned}$$

Exp3:



$$v_r = -C \frac{L}{r}, \quad v_\theta = 0 \rightarrow \varphi = \int v_r \, dr = -CL \ln r = -CL \ln(x^2 + y^2)$$

$$\psi = \int r \, v_r \, d\theta = -CL\theta = -CL \tan^{-1} \frac{y}{x}$$

$$u = v_r \cos \theta = -CL \frac{x}{x^2 + y^2}$$

$$v = v_r \sin \theta = -CL \frac{y}{x^2 + y^2}$$

The flowrate per unit width:

$$q = \int r \, v_r \, d\theta = \Delta\psi|_0^\pi = -CL\pi \quad m^2/s$$

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M Tight



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integrated in the streamwise direction starting from an initial velocity profile The method is applicable to arbitrary choices of the initial profile the pressure gradient and or the injection or suction distribution The classical Howarth Problem and the boundary layer on a circular cylinder are solved as test cases velocity profiles skin friction and the separation point are all predicted accurately The solution for a flat plate with constant injection is then presented and compared with previous approximate results As a final example flow around a porous circular cylinder with various rates of injection is treated Author

Numerical Solution of the Compressible Boundary Layer Equations Using the Finite Element Method E. Hytopoulos,1992 *Analysis of Turbulent Boundary Layers* Tuncer Cebeci,A. M. O. Smith,1974

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