

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

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

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

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

Exp3:



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

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

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

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

The flowrate per unit width:

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

Manual Solution Boundary Layer Analysis

Hussin A.Rothana



Manual Solution Boundary Layer Analysis:

Manual Solution Boundary Layer Analysis Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Manual Solution Boundary Layer Analysis**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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