

1.19

$$\mu \frac{d^2 u}{dy^2} = \frac{dp}{dx}$$

$$\frac{du}{dy} = \frac{1}{\mu} \frac{dp}{dx} y + C_1$$

$$u(y) = \frac{1}{\mu} \frac{dp}{dx} \frac{y^2}{2} + C_1 y + C_2$$

applying B.Cs $u(0) = 0$ and $u(H) = 0$

$$0 = 0 + 0 + C_2 \quad \text{and} \quad 0 = \frac{1}{\mu} \frac{dp}{dx} \frac{H^2}{2} + C_1 H$$

$$C_2 = 0 \quad \text{and} \quad C_1 = -\frac{H}{2\mu} \frac{dp}{dx}$$

$$\underline{u(y) = -\frac{1}{2\mu} \frac{dp}{dx} (Hy - y^2)}$$



note ^{because} Pressure drops in the direction of flow, $\frac{dp}{dx} < 0$ in velocity equation.

(a) $\mu \frac{d^2 u}{dy^2} = \frac{dp}{dx}$

$$u_{\text{assumed}} = C_1 \sin\left(\frac{\pi y}{H}\right)$$

note the assumed solution satisfies the boundary conditions.

$$\frac{du}{dy} = \frac{d}{dy} \left(C_1 \sin\left(\frac{\pi y}{H}\right) \right) = C_1 \frac{\pi}{H} \cos\left(\frac{\pi y}{H}\right)$$

$$\frac{d^2 u}{dy^2} = \frac{d}{dy} \left(C_1 \frac{\pi}{H} \cos\left(\frac{\pi y}{H}\right) \right) = -C_1 \left(\frac{\pi}{H}\right)^2 \sin\left(\frac{\pi y}{H}\right)$$

$$\mu \left[-C_1 \left(\frac{\pi}{H}\right)^2 \sin\left(\frac{\pi y}{H}\right) \right] - \frac{dp}{dx} = 0$$

We may force the error function to equal zero at $y = \frac{H}{2}$

$$\mu \left[-C_1 \left(\frac{\pi}{H}\right)^2 \sin\left(\frac{\pi}{2}\right) \right] - \frac{dp}{dx} = 0$$

$$C_1 = -\frac{H^2}{\mu \pi^2} \frac{dp}{dx}$$

$$\text{then, } \underline{u(y) = -\frac{H^2}{\mu \pi^2} \frac{dp}{dx} \left(\sin\left(\frac{\pi y}{H}\right) \right)}$$



Solution Manual For Finite Element Analysis Moaveni

George C. Tsiatas, Vagelis Plevris



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Finite Element Analysis Theory and Application with ANSYS, 3/e Saeed Moaveni, 2011 **Fundamentals of the Finite Element Method** Hartley Grandin, 1986 *Solutions Manual for Introductory Finite Element Method* Chandrakant S. Desai, Tribikram Kundu, 2001-09 *Problems and Solutions in Finite Element Analysis* CRC Press, David W. Nicholson, 2008-06-01

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bending it means the strain distribution across the depth of the cross section is linear as shown below at limiting state the
maximum strain in concrete which occurs at outermost compression fibre is 0 0035

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based on the elastic theory the material which is linear elastic isotropic and homogeneous limit state method the condition or state at which structure becomes unfit is called the limit state and the philosophy

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