

Fluid Mechanics(1)
Course No. 0904361
First Exam
Date: 25/3/2014

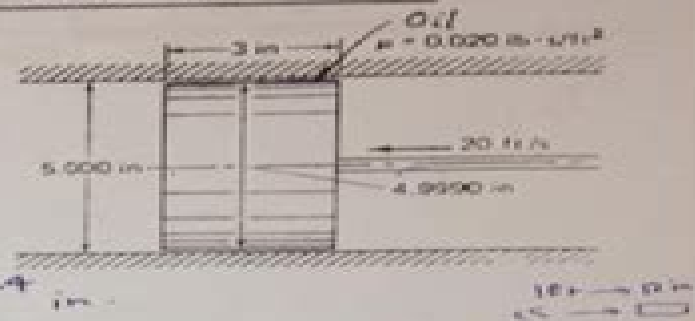
OPEN BOOK

Seat No. _____
Student Name: _____
Student No. 0120361
Instructor: Prof. Ali Badran
Time: 60 Minutes

Prob. 1 (5 Points)

A piston is moving through a cylinder at a speed of 20 ft/s as shown. The film of oil separating the piston from the cylinder has a viscosity of 0.02 lb·s/ft². What is the force required to maintain this motion?

Hint: Assume a linear velocity profile for the oil layer.



$$\mu = 0.020 \text{ lb} \cdot \text{s} / \text{ft}^2$$

$$u = 20 \text{ ft/s}$$

$$y = \frac{5.000 - 4.9990}{2} \Rightarrow y = 5 \times 10^{-4} \text{ in.}$$

$$y = 0.4167 \times 10^{-3} \text{ ft}$$

$$\tau = \mu \frac{du}{dy} \rightarrow \text{with linear velocity profile}$$

$$\frac{du}{dy} = \frac{u}{y}$$

$$\tau = \frac{0.020 \times 20}{10^{-3} \times 0.4167} = (\tau = 0.96 \text{ lb}_f / \text{ft}^2)$$

$$\tau = \frac{F}{A} \Rightarrow A = 5 \times 3 = 15 \text{ in}^2$$

$$A = \frac{15}{(12)^2} = 0.1042 \text{ ft}^2$$

$$0.96 \times 10^3 \times 0.1042 = F$$

$$F = 0.1 \times 10^4 \text{ lb}_f \quad \#$$

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