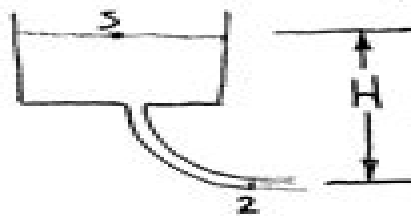


6.37



BETWEEN SURFACE AND 2,

$$\frac{P_1}{\rho g} + \frac{U_1^2}{2g} + z_1 = h_L + \frac{P_2}{\rho g} + \frac{U_2^2}{2g} + z_2$$

$$P_1 = P_2, U_1 = 0, z_1 - z_2 = H$$

$$\therefore \frac{U_2^2}{2g} + h_L = H$$

CASE ①  $h_L = 0$ , NO NOZZLE

$$U_2 = \sqrt{2gH} = 14.0 \text{ m/s}$$

$$\dot{m} = \rho A U_2 = 17.59 \text{ kg/s}$$

CASE ②  $h_L = 0$ , NOZZLE

$$U_2 \text{ same, } A = \frac{A_{\text{NOZZLE}}}{16}$$

$$\dot{m} = 1.10 \text{ kg/s}$$

CASE ③  $h_L = 3V^2/g$ , NO NOZZLES

$$\text{HERE } V = U_2$$

$$U_2 = \sqrt{\frac{2gH}{3.5}} = 5.29 \text{ m/s}$$

$$\dot{m} = 6.65 \text{ kg/s}$$

CASE ④  $h_L = \frac{3V^2}{g}$ , NOZZLES

$$\text{HERE } V = U_2 \frac{d_N}{d_P} = U_2/16$$

$$h_L = \frac{3V^2}{g} = \frac{3U_2^2}{256g}$$

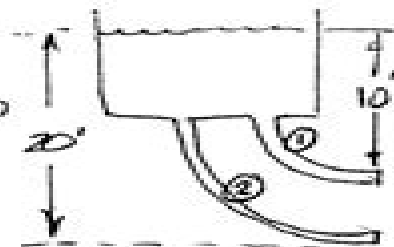
$$U_2^2 = gH / \left( \frac{1}{2} + \frac{3}{256} \right)$$

$$U_2 = 13.85 \text{ m/s}$$

$$\dot{m} = 1.088 \text{ kg/s}$$

6.38

FOR LWB 1,  
THIS MASS FLOW  
IS THE SAME 20'  
AS IN THE



PREVIOUS  
PROBLEM (CASE ①)

$$\dot{m}_1 = 17.59 \text{ kg/s}$$

FOR LWB ②,  $H_2 = 2H_1$ 

$$\therefore \dot{m}_2 = \sqrt{2} \dot{m}_1 = 24.88 \text{ kg/s}$$

# Welty Solutions Manual

**Jie Yang, Alessandro Bozzon, Ujwal  
Gadiraju, Matthew Lease**



## Welty Solutions Manual:

**Fundamentals of Momentum, Heat, and Mass Transfer** James R. Welty, Charles E. Wicks, Robert E. Wilson, 1984-01-01      Solution Manual for Mechanics and Control of Robots Krishna C. Gupta, 1997-04-24 Intended as an introduction to robot mechanics for students of mechanical industrial electrical and bio mechanical engineering this graduate text presents a wide range of approaches and topics It avoids formalism and proofs but nonetheless discusses advanced concepts and contemporary applications It will thus also be of interest to practicing engineers The book begins with kinematics emphasizing an approach based on rigid body displacements instead of coordinate transformations it then turns to inverse kinematic analysis presenting the widely used Pieper Roth and zero reference position methods This is followed by a discussion of workplace characterization and determination One focus of the discussion is the motion made possible by spherical and other novel wrist designs The text concludes with a brief discussion of dynamics and control An extensive bibliography provides access to the current literature

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