

small tanks must be geometrically similar, and that the Froude and Reynolds numbers must be equal.

Choose D (tank diameter) as a characteristic length, and $(4Q/\pi D^2)$ as the characteristic velocity, where Q is the volumetric flow rate out of the tank. Then:

$$Re = \frac{4Q\rho}{\pi D\mu} \quad ; \quad Fr = \frac{16Q^2}{\pi^2 D^5 g}$$

Denote quantities associated with the large and small tanks by subscripts L and S respectively. We exclude the possibility of altering the gravitational field. Then the requirement of equal Reynolds and Froude numbers is:

$$Re: \quad \left(\frac{Q_S}{Q_L}\right) \left(\frac{D_L}{D_S}\right) = \left(\frac{\rho_L}{\rho_S}\right) \left(\frac{\mu_S}{\mu_L}\right) = \left(\frac{1.286}{56.7}\right) \left(\frac{1.00}{1.00}\right) = 0.0227$$

$$Fr: \quad \left(\frac{Q_S}{Q_L}\right) = \left(\frac{D_S}{D_L}\right)^{5/2}$$

Then: from the above two statements:

$$\left(\frac{D_S}{D_L}\right) = (0.0227)^{2/5} = 0.080$$

Consequently:

$$D_S = (0.080)(60 \text{ ft}) = \underline{4.8 \text{ ft}}$$

$$Q_S = (0.080)^{5/2} (800 \text{ gal min}^{-1}) = \underline{1.46 \text{ gal min}^{-1}}$$

Therefore:

- The model tank should be 4.8 ft in diameter
- The drawoff tube should be 0.080 ft in diameter, and 0.080 ft high
- The drawoff tube should be placed 0.32 feet from the side of the tank.

If in this tank water is withdrawn at $1.46 \text{ gal min}^{-1}$, air will be entrained when the liquid level is $(4.8/60)$ of the level producing entrainment in the large tank at a withdrawal rate of 800 gal min^{-1} .

Transport Phenomena Solutions Manual

Mark Johnson, C. Ross Ethier



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Solution's Manual - Transport Phenomena Fundamentals Second Edition Taylor & Francis Group, 2010-05-21

Transport Phenomena in Materials Processing E.J. Poirer, D.R. Poirer, 2017-08-18 *Introduction to Transport Phenomena* William Thomson, 1999-02 *Transport Phenomena* Robert S. Brodkey, Harry C. Hershey, 2003-02 Part II covers applications in greater detail The three transport phenomena heat mass and momentum transfer are treated in depth through simultaneous or parallel developments *Solutions Manual to Accompany Transport Phenomena in Materials Processing* E. J. Poirier, D. R. Poirier, G. H. Geiger, 1994 This text provides a teachable and readable approach to transport phenomena by providing numerous examples and applications The text leads the reader through the development and solution of relevant differential equations by applying familiar principles of conservation to numerous situations and by including many worked examples in each chapter The book is organized similarly to other texts in transport phenomena Section I deals with the properties and mechanics of fluid motion Section II with thermal properties and heat transfer and Section III with diffusion and mass transfer The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter particularly in the chapters devoted to the transport properties Generous portions of the text numerous examples and many problems apply transport phenomena to materials processing *Solutions Manual to Accompany Elements of Transport Phenomena* Leighton E. Sissom, Donald R. Pitts, 1972

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Introduction to Transport Phenomena in Materials Engineering David R. Gaskell, Matthew John M. Krane, 2024-01-24

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