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moment acting due to pressure.

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1 Solutions to Chapter 2 problems Problem 2.1: In this problem we are interested in the continuity equation for axisymmetric flow in terms of the cylindrical coordinate system  $(r; \theta; z)$ , where all flow variables are independent of angular coordinate,  $\theta$ . Let the velocity components  $(u; v; w) = (u; 0; w)$  in the  $(r; \theta; z)$  coordinate directions.

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22 Aerodynamics for Engineering Students 1.4.2 Dimensional analysis applied to aerodynamic force In discussing aerodynamic force it is necessary to know how the

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dependent variables, aerodynamic force ... individual impacts  
They appear as a steady force on the area The intensity of this  
'molecular bombardment' force is the static pressure  $p$   
Aerodynamics for Engineering Students Very frequently the  
static...

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...

Summing the three contributions leads to the result given in part  
(a). The equation is  $\frac{\partial C}{\partial t} + u \frac{\partial C}{\partial x} + v \frac{\partial C}{\partial y} = D \frac{\partial^2 C}{\partial x^2} + \frac{\partial^2 C}{\partial y^2}$  Part (b) asks about the necessity of assuming a  
dilute suspension of contaminant.

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Daniel Valentine is a Professor of Mechanical and Aeronautical Engineering at Clarkson University and Affiliate Director of the Clarkson Space Grant Program which is part of the New York NASA Space Grant Consortium. This program has provided support for undergraduate research appointments, and for graduate students.

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