

Relevant quantities (1) important to problem  
 $\rho(\rho = \rho_{\text{fluid}}, \rho_{\text{sphere}}, \rho_{\text{terminal}}) = 0$   
 $D = \text{sphere diameter}$   
 $g = \text{gravitational acceleration}$   
 $\rho_{\text{fluid}} = \text{density of fluid}$   
 $\rho_{\text{sphere}} = \text{density of sphere}$   
 $U_{\text{terminal}} = \text{terminal velocity}$   
 $N = 5$   
 $5 \text{ important}$   
 $\rho \Rightarrow L^3$   
 $g \Rightarrow LT^{-2}$   
 $\rho_{\text{fluid}} \Rightarrow ML^{-3}$   
 $\rho_{\text{sphere}} \Rightarrow ML^{-3}$   
 $U_{\text{terminal}} \Rightarrow LT^{-1}$   
 $\text{cm}$   
 $\text{m/sec}^2$   
 $\text{g/cm}^3$   
 $\text{g/cm}^3$   
 $\text{cm/sec}$

$$\underline{F = 3}$$

3 dimensions involved  $\Rightarrow M, L, T$

5.  $\Pi$  theorem states that we can form  $5 - 3 = 2$  dimless  $\Pi$

) Base variables to be used  $g, \rho_{\text{fluid}}, D$

$\left. \begin{matrix} g & LT^{-2} \\ \rho_{\text{fluid}} & ML^{-3} \\ D & L \end{matrix} \right\}$  has all 3 dimensions involved

(the parameters left are  $\rho_{\text{sphere}}, U_T$ )  
 ) form the 2 dimensionless parameters

$$\pi_1 = g^a \rho_{\text{fluid}}^b D^c \rho_{\text{sphere}}^e$$

$\swarrow$  density of fluid       $\swarrow$  density of sphere

$$\pi_2 = g^x \rho_{\text{fluid}}^y D^z U_T$$



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# Fe Mechanical Sample Questions And Solutions

**Lei Huang**



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