

Scinfeld and Pandis developed a chart (see below) to calculate the settling velocity for all particles (mostly larger particles though). The relationship is plotted in Re vs. $C_D Re^2$, where $C_D Re^2$ is developed from

$$V_{ts} = \left(\frac{4g\rho_f C_s D_p}{3C_D \rho} \right)^{1/2} \quad \text{and} \quad Re = \frac{\rho U D_p}{\mu}$$

a) (10 points) Derive the relationship $C_D Re^2 = \frac{4\rho\rho_f g D_p^2 C_s}{3\mu^2}$ using the above two equations.

b) (10 points) Determine the settling velocity in the air for a 200 μm diameter particle with density of 3.5 g/cm^3 using the chart below. Take $C_s = 1.0$ for such a large particle. $\rho_{air} = 0.00130 \text{ g/cm}^3$ and $\mu_{air} = 0.000172 \text{ g/cm}\cdot\text{s}$. (Use another sheet of paper if you need it.)

$$C_D Re^2 = \frac{4\rho\rho_f g D_p^2 C_s}{3\mu^2} \quad \text{and} \quad Re = \frac{\rho U D_p}{\mu}$$

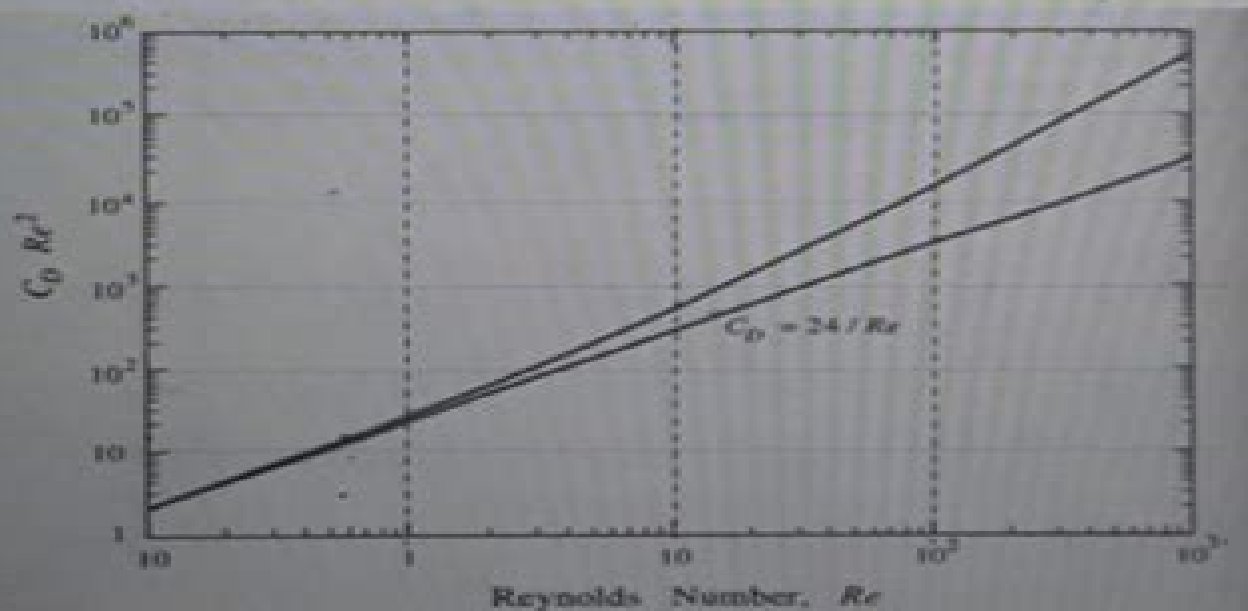


FIGURE 8.7 $C_D Re^2$ as a function of Re for a sphere.

Seinfeld Pandis Solution Manual

Joseph Topich



Seinfeld Pandis Solution Manual:

Atmospheric Chemistry and Physics John H. Seinfeld, Spyros N. Pandis, 2012-12-18 Thoroughly restructured and updated with new findings and new features The Second Edition of this internationally acclaimed text presents the latest developments in atmospheric science It continues to be the premier text for both a rigorous and a complete treatment of the chemistry of the atmosphere covering such pivotal topics as Chemistry of the stratosphere and troposphere Formation growth dynamics and properties of aerosols Meteorology of air pollution Transport diffusion and removal of species in the atmosphere Formation and chemistry of clouds Interaction of atmospheric chemistry and climate Radiative and climatic effects of gases and particles Formulation of mathematical chemical transport models of the atmosphere All chapters develop results based on fundamental principles enabling the reader to build a solid understanding of the science underlying atmospheric processes Among the new material are three new chapters Atmospheric Radiation and Photochemistry General Circulation of the Atmosphere and Global Cycles In addition the chapters Stratospheric Chemistry Tropospheric Chemistry and Organic Atmospheric Aerosols have been rewritten to reflect the latest findings Readers familiar with the First Edition will discover a text with new structures and new features that greatly aid learning Many examples are set off in the text to help readers work through the application of concepts Advanced material has been moved to appendices Finally many new problems coded by degree of difficulty have been added A solutions manual is available Thoroughly updated and restructured the Second Edition of *Atmospheric Chemistry and Physics* is an ideal textbook for upper level undergraduate and graduate students as well as a reference for researchers in environmental engineering meteorology chemistry and the atmospheric sciences Click here to Download the Solutions Manual for Academic Adopters <http://www.wiley.com/WileyCDA/Section/id-292291.html>

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Atmospheric Chemistry and Physics John H. Seinfeld, Spyros N. Pandis, 1998-03-01

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