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1A.1 Estimation of dense-gas viscosity.

a Table E.1 gives T. = 126.2 K, pr = 33.5 atm, and = 180 x 1O* g/cm s for N5. The reduced conditions for the viscbsity estimation are then:

$$P_{\rm c} = P/p_{\rm c} = (1000 \pm 14.7)/33.5 \times 14.7 = 2.06$$

$$T_{c} = T/T_{c} = (273.15 + 68 - 32)/8.8)/726.2 = 2.32^{-6}$$

At this reduced state, Fig. 1.3-1 gives $_{-}$ = 1.15. Hence, the predicted viscosity is $w = r / . = 1.15 \times 180 \times 10^{-10} = 2.07 \times 10^{-10}$ g/cm/s. This result is then converted into the requested units by use of Table F.3-4:

$$\theta = 2.07 \times 10$$
 65.7197 (O = 1.4 x 1O |b_/8-8

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Manual G. Verlarde

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Solution's Manual - Transport Phenomena Fundamentals Second Edition Taylor & Francis Group, 2010-05-21 Modeling in Transport Phenomena Ismail Tosun, 2007-07-17 Modeling in Transport Phenomena Second Edition presents and clearly explains with example problems the basic concepts and their applications to fluid flow heat transfer mass transfer chemical reaction engineering and thermodynamics A balanced approach is presented between analysis and synthesis students will understand how to use the solution in engineering analysis Systematic derivations of the equations and the physical significance of each term are given in detail for students to easily understand and follow up the material There is a strong incentive in science and engineering to understand why a phenomenon behaves the way it does For this purpose a complicated real life problem is transformed into a mathematically tractable problem while preserving the essential features of it Such a process known as mathematical modeling requires understanding of the basic concepts This book teaches students these basic concepts and shows the similarities between them Answers to all problems are provided allowing students to check their solutions Emphasis is on how to get the model equation representing a physical phenomenon and not on exploiting various numerical techniques to solve mathematical equations A balanced approach is presented between analysis and synthesis students will understand how to use the solution in engineering analysis Systematic derivations of the equations as well as the physical significance of each term are given in detail Many more problems and examples are given than in the first edition answers provided Chemical Engineering Education ,1994 Handbook of Detergents - 6 Volume Set Uri Zoller, 2008-11-23 With contributions from experts and pioneers this set provides readers with the tools they need to answer the need for sustainable development faced by the industry The six volumes constitute a shift from the traditional mostly theoretical focus of most resources to the practical application of advances in research and development With con

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