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Substituting and multiplying by the factor 109 for the density unity kg/km³, the mass of the atmosphere is determined to be $m = 5.092 \times 10^{18}$ kg Discussion Performing the analysis with excel would yield exactly the same results. EES Solution for final result: $a=1.2025166$ $b=-0.10167$ $c=0.0022375$ $r=6377$ $h=25$ $m=4 \cdot \pi \cdot (a \cdot r^2 \cdot h + r \cdot (2 \cdot a + b \cdot r) \cdot h^2 / 2 + (a + 2 \cdot b \cdot r + c \cdot r^2) \cdot h^3 / 3 + (b + 2 \cdot c \cdot r) \cdot h^4 / 4 + c \cdot h^5 / 5) \cdot 1E+9$ 1-7 Pressure, Manometer, and Barometer 1-34C The pressure relative to the atmospheric pressure is called ...

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The effect of the initial pressure of refrigerant-134 on the volume of the tank is to be investigated as the initial pressure varies from 0.5 MPa to 1.5 MPa. The volume of the tank is to be plotted versus the initial pressure, and the results are to be discussed.

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The results are: $\rho(z) = a + bz + cz^2 = 1.20252 - 0.101674z + 0.0022375z^2$ for the unit of kg/m^3 , (or, $\rho(z) = (1.20252 - 0.101674z + 0.0022375z^2) \times 10^9$ for the unit of kg/km^3) where z is the vertical distance from the earth surface at sea level. At $z = 7$ km, the equation would give $\rho = 0.60 \text{ kg/m}^3$.

Thermodynamics an engineering approach 5th ed (solution)

Thermodynamics An Engineering Approach Yunus A. Cengel & Michael A. Boles 7th Edition, McGraw-Hill Companies, ISBN-978-0-07-352932-5, 2008 Sheet 1:Chapter 1 1–5C What is the difference between kg-mass and kg force? Solution Solution

Thermodynamics An Engineering Approach

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