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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: $a = 1.2025166$, $b = -0.10167$, $c = 0.0022375$, $r = 6377$, $h = 25$, $m = 4 \cdot \pi \cdot (a \cdot r^2 \cdot h + r \cdot (2 \cdot a + b \cdot r) \cdot h^2 / 2 + (a + 2 \cdot b \cdot r + c \cdot r^2) \cdot h^3 / 3 + (b + 2 \cdot c \cdot r) \cdot h^4 / 4 + c \cdot h^5 / 5) \cdot 10^9$
1-7 Pressure, Manometer, and Barometer
1-34C The pressure relative to the atmospheric pressure is called ...

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1-5C What is the difference between kg-mass and kg force? Solution Solution

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The results are: $(z) = a + bz + cz^2 = 1.20252 - 0.101674z + 0.0022375z^2$ for the unit of kg/m^3 , (or, $(z) = (1.20252 - 0.101674z + 0.0022375z^2) / 109$ 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 $= 0.60 \text{ kg/m}^3$.

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Boles specializes in heat transfer and has been involved in the analytical and numerical solution of phase change and drying of porous media. He is a member of the American Society of Mechanical Engineers, the American Society for Engineering Education, and Sigma Xi. Dr. Boles received the ASEE Meriam/Wiley Distinguished Author Award in 1992 for excellence in authorship.

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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 $z = 7 \text{ km}$, the equation would give $\rho = 0.60 \text{ kg/m}^3$.

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