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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 $\rho = 0.60 \text{ kg/m}^3$.

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 $\rho = 1.20251659E+00 - 1.01669722E-01 * z + 2.23747073E-03 * z^2$ $z = 7$ [km] "The mass of the atmosphere is obtained by integration to be"
 $m = 4 * \pi * (a * r_0^2 * h + r_0 * (2 * a + b * r_0) * h^2 / 2 + (a + 2 * b * r_0 + c * r_0^2) * h^3 / 3 + (b + 2 * c * r_0) * h^4 / 4 + c * h^5 / 5) * 1E9$
 $a = 1.20252$ $b = -0.101670$ $c = 0.0022375$ r , km z , km ρ , kg/m^3
6377 0 1.225 6378 1 1.112 6379 2 1.007 6380 3 0.9093 6381 4 0.8194 6382 5 0.7364 6383 6 0.6601 6385 8 0.5258 6387 10 ...

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