

## Thermodynamics Solutions

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### Thermodynamics Solutions

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### Flory-Huggins solution theory - Wikipedia

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### Thermodynamic Properties

The results are:p(z) = a + bz + cz<sup>2</sup> = 1.20252 - 0.101674z + 0.00223752z<sup>2</sup>for the unit of kg/m<sup>3</sup>,(or, p(z) = (1.20252 - 0.101674z + 0.00223752z<sup>2</sup>)x109 for the unit of kg/km<sup>3</sup>)where z is the vertical distance from the earth surface at sea level. At z = 7 km, the equation would give ρ = 0.60 kg/m<sup>3</sup>.

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Processes (Ideal Gas) A steady flow compressor handles 113.3 m<sup>3</sup> /min of nitrogen (M = 28; k = 1.399) measured at intake where P1= 97 KPa and T1= 27 C. Discharge is at 311 KPa. The changes in KE and PE are negligible. For each of the following

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