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Answer: (i) First law of thermodynamics: It states that energy can neither be created nor be destroyed. The energy of an isolated system is constant. The energy of an isolated system is constant.  $\Delta u = q + w$

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Flory-Huggins solution theory is a lattice model of the thermodynamics of polymer solutions which takes account of the great dissimilarity in molecular sizes in adapting the usual expression for the entropy of mixing. The result is an equation for the Gibbs free energy change for mixing a polymer with a solvent. Although it makes simplifying assumptions, it generates useful results for ...

## Flory-Huggins solution theory - Wikipedia

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

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$0.101674z + 0.0022375z^2$ ) $\times 10^9$  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  $\rho = 0.60$  kg/m<sup>3</sup>.

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solution, etc. Course Description. This course covers thermodynamics concepts at a graduate level. It covers applications of the first and second laws of thermodynamics to the analysis of engineering ... "Fundamentals of Engineering Thermodynamics", Michael J. Moran and Howard N. Shapiro, John Wiley and Sons.

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Processes (Ideal Gas) A steady flow compressor handles 113.3 m 3 /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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