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Fundamentals of chemical engineering thermodynamics : with  
applications to chemical processes / Themis Matsoukas. p. cm.

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Specific volume is defined as the quantity of volume occupied by  
unit mass of substance and is denoted by  $v$ . Mathematically,  
specific volume is equal to inverse of density of that substance  
and density is denoted by  $\rho$ . Density of ammonia, is equal to.

Substitute for  $\rho$  in equation (1) to calculate the specific volume of

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ammonia,.

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The notes are from the Fall 2015 offering of CH E 220, Penn State's first course in chemical engineering thermodynamics. The list of topics is a representative syllabus for a typical course in Thermo I in chemical engineering. Chapters 8 through 14 covers material that falls under the general title Phase & Chemical Equilibria.

**Lecture Notes | Fundamentals of CH E Thermodynamics**

THE FIRST LAW OF THERMODYNAMICS | 8 where  $\Phi$  is the number of chemical species in the system and  $\Phi$  is the number of phases. The value of  $\mathfrak{J}$  is the number of independent, intensive properties needed to constrain the properties in a given phase.

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Fundamentals of Chemical Engineering Thermodynamics. By  
Themis Matsoukas. Published Oct 2, 2012 by Pearson. Part of the  
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Description. Fundamentals of Chemical Engineering Thermodynamics is the clearest and most well-organized introduction to thermodynamics theory and calculations for all chemical engineering undergraduates.

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Heat and work are path functions because they depend on how a system changes from initial to final state, hence they are state functions. Thermal conductivity is mainly a function of the motion of the free electrons therefore property of a material, not a path function. 3. An actual engine is to be designed having same efficiency as the Carnot cycle.

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