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Specific volume is defined as the quantity of volume occupied by unit mass of substance and is denoted by.

Mathematically, specific volume is equal to inverse of density of that substance and density is denoted by. Density

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of ammonia, is equal to. Substitute for in equation (1) to calculate the specific volume of ammonia,.

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The notes are from the Fall 2015 offering of CHE 220, Penn State's first course in chemical engineering thermodynamics. The

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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
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where n is the number

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of chemical species in the system and Φ is the number of phases. The value of \mathcal{J} is the number of independent, intensive properties needed to constrain the properties in a given phase.

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Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures, emphasizing phase and chemical equilibrium.

Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering, including separations, reactions, and capstone design.

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students. The subject is presented through a problem-solving inductive (from specific to general) learning approach, written in a conversational and approachable manner.

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...

Heat and work are path functions because they depend on how a

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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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