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(ideal solution ) • Ethanol-Water: –The volume of 1 mole pure ethanol is 58.0 ml and the volume of 1 mole pure water is 18.0 ml. However, 1 mole water mixed with 1 mole ethanol does not result in 58.0 ml + 18.0 ml, or 76.0 ml, but rather 74.3 ml.

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# **Chapter 1 - Introduction: Basic Concepts of Thermodynamics**

BASIC CONCEPTS OF THERMODYNAMICS 1.1 Introduction Thermodynamics is a branch of science that deals with energy in all its forms and the laws governing the transformation of energy from one form to another. Since, there are many forms of energy such as mechanical, thermal or heat, chemical, electrical, etc.,

# **BASIC CONCEPTS OF THERMODYNAMICS - Heat Engines**

Thermodynamics Contents Chapter-1: Introduction Chapter-2: Temperature Chapter-3: Work and Heat Transfer Chapter-4: First Law of Thermodynamics Chapter-5: First Law Applied to Flow Process

Chapter-6: Second Law of Thermodynamics Chapter-7: Entropy Chapter-8: Availability & Irreversibility Chapter-9: Properties of Pure Substances

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# Lec-1 Introduction and Fundamental Concepts

Thermodynamics is the branch of physics that deals with heat and temperature, and their relation to energy, work, radiation, and properties of matter. The behavior of these quantities is governed by the four laws of thermodynamics which convey a quantitative description using measurable macroscopic physical quantities, but may be explained in terms of microscopic constituents by statistical ...

#### Thermodynamics - Wikipedia

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