

Properties of substances

Properties of substances like pressure, temperature and density, are:

Answer: state functions

Properties like pressure, temperature and density, are quantities that depend on a state. There are state functions. Opposite, work and heat transfer are quantities that are transferred to or from a system during an interaction. They are not properties since the amount of such a quantity depends on more than just the state of the system. Heat and work are energy transfer mechanisms between a system and its surroundings. Both are associated with a process, not a state. Unlike properties, heat or work has no meaning at a state. They are path functions (this is their magnitude depends on the path followed during a process).