

HYSTERESIS

Meaning: Hysteresis is the phenomenon in which the output of a system depends on its past inputs, particularly evident in physical systems like magnetic materials responding to varying external conditions.

1. Hysteresis can be observed in various physical systems where the output depends on the history of inputs.
2. The concept of hysteresis is crucial in understanding magnetic materials and their behavior under changing magnetic fields.
3. In economics, hysteresis refers to the long-lasting effects that past events can have on current conditions and decisions.
4. The mechanical properties of rubber exhibit hysteresis, leading to energy loss during cyclic loading and unloading.
5. Understanding the hysteresis loop is essential for engineers designing systems that involve cyclic stress and strain.

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