Thermodynamics

University Mechanical Engineering · Vocabulary in context

Word	Example
thermodynamics /ˌθɜːməʊdaɪˈnæmɪks/	Use **thermodynamics** to account for heat and work.
state /steɪt/	A **state** is the fluid condition at an instant.
property diagram	A **property diagram** places each state as a point.
saturation dome	Liquid and vapour coexist inside the **saturation dome**.
quality /ˈkwɒlɪti/	**Quality** is the vapour mass fraction.
boundary work	On a p–V diagram, **boundary work** is area under the path. p–V
control volume	Choose a **control volume** around the turbine.
isentropic	**Isentropic** means entropy stays constant.
entropy /ˈentrəpi/	A file with high **entropy** is hard to compress.
Carnot	**Carnot** bounds every engine between two reservoirs.
Rankine cycle	The **Rankine cycle** models steam power generation.
vapor-compression cycle	The **vapor-compression cycle** uses compression, condensation, throttling and evaporation.
T–s diagram	On a **T–s diagram**, area represents specific reversible heat transfer.

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