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- Air continuously circulates in a closed loop and behaves as an ideal gas
- All the processes are internally reversible
- Combustion is replaced by a heat- addition process from the outside
- Heat rejection replaces the exhaust process
- Also assume a constant value for  $C_p$ , evaluated at room temperature

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At every point in the cycle, the system is in thermodynamic equilibrium, so the cycle is reversible (its entropy change is zero, as entropy is a state function). During a closed cycle, the system returns to its original thermodynamic state of temperature and pressure. Process quantities (or path quantities), such as heat and work are process dependent. For a cycle for which the system returns to its initial state the first law of thermodynamics applies:

## **Thermodynamic cycle - Wikipedia**

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A power cycle consists of a series of repeating thermodynamic processes along a closed process path, while heat is converted into mechanical work. The most widespread working medium is water. The power cycle involves the water's change of phase from a liquid state into superheated steam.

## **Power Cycle - an overview | ScienceDirect Topics**

Thermodynamic cycles can be categorized yet another way: closed and open cycles. In closed cycles, the working fluid is returned to the initial state at the end of the cycle and is recirculated. In open cycles, the working fluid is renewed at the end of each cycle instead of being recirculated.

## **Chapter 9**

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## **Closed Power Cycles : Thermodynamic Fundamentals and ...**

Invernizzi, Closed Power Cycles, Softcover reprint of the original 1st ed. 2013, 2015, Buch, 978-1-4471-6057-1. Bücher schnell und portofrei

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A thermodynamic cycle consists of a series of thermodynamic processes, which take place in a specific order, and the initial conditions are restored at the end of the processes. When the processes of cycles are outlined on the p-v diagram, they form a closed figure, each process described by its own curve.

## **Thermodynamic Cycle | Types, Working, Assumptions and More**

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Thermodynamic cycle 2 Power cycles Heat engine diagram. Thermodynamic power cycles are the basis for the operation of heat engines, which supply most of the world's electric power and run almost all motor vehicles. Power cycles can be divided according to the type of heat engine they seek to model. The most

## **Thermodynamic cycle - Saylor Academy**

Evaluating Thermodynamic Properties; Control Volume Energy Analysis; Second Law of Thermodynamics and Entropy; Vapor Power Cycles; Gas Power Cycles . Fundamentals of Thermodynamics ChE 2101. Textbook: "Statistical Mechanics for Thermophysical Property

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