1. Second (2nd) Law of Thermodynamics
   1. [History](https://en.wikipedia.org/wiki/Second_law_of_thermodynamics#History)

Nicolas Léonard Sadi Carnot was the first to theorize the conversion of heat into mechanical work in 1824 and realized correctly that the efficiency of the conversion depends on the difference of temperature between the engine and its environment. Later with through Rudolf Clausius recognized the significance of James Prescott Joule’s work on the conversion of energy and formulated the *second law of thermodynamics*. This second law contradicted the caloric theory where heat was considered a fluid and provided the base for Sadi Carnot’s principle and gave rise to the definition of entropy.

* 1. Summary

1. Relevant Examples