

Physics 1114 - General Physics I

Quiz #25 - 2012.07.24

Solutions

1. Why is the Carnot engine the most efficient possible heat engine?

The Carnot engine manages to avoid all irreversible processes, in particular, heat flow through a finite temperature drop.

2. Give at least one formulation of the Second Law of Thermodynamics.

The refrigerator version states that it is impossible for any process to have as its sole result the transfer of heat from a cooler to a hotter object.