

# Download Beyond Equilibrium Thermodynamics

Non-equilibrium thermodynamics is a branch of thermodynamics that deals with physical systems that are not in thermodynamic equilibrium but can be described in terms of variables (non-equilibrium state variables) that represent an extrapolation of the variables used to specify the system in thermodynamic equilibrium. Thermodynamics is the branch of physics that has to do with heat and temperature and their relation to energy and work. The behavior of these quantities is governed by the four laws of thermodynamics, irrespective of the composition or specific properties of the material or system in question. A comprehensive treatment of Entropy, free energy and the Second Law of Thermodynamics for students of General Chemistry. Keeping It Simple (and Clear) Teachers and Learners: The Second Law of Thermodynamics is probably the most misunderstood principle of physics. Because of the confusion and pervasive misinformation regarding this principle, I've dragged my feet shamelessly when it came to dealing with it in this website.