

Chapter Thermodynamics

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Introduction

Thermodynamics is the study of energy and how energy is converted between different forms, and based upon postulates or laws, the theory of thermodynamics can tell which transformations are permissible and the final equilibrium state of many different types of systems important to pharmacy. Perhaps these aspects can best be illustrated by a simple example[1]. Fig. 1 shows what would happen if a ball that was resting on the edge of a bowl, with a defined amount of gravitational potential energy, was pushed into the bowl. When the ball is pushed it will roll down the sides of the bowl and oscillate back and forth conserving both potential and kinetic energy, but eventually the ball would come to rest on the bottom of the bowl. In this simple example the ball is resting in an unstable equilibrium position and with a slight perturbation of the system the ball rolls into the bowl and at this point the gravitational potential energy of the ball is converted to kinetic energy (the energy of motion). Eventually, the ball will stop at this bottom of the bowl in a stable equilibrium position. What happened to the potential and kinetic energy of the ball? It was converted to heat through friction with the bowl and air. Thus, in going from an unstable equilibrium to a stable equilibrium the ball has converted its gravitational potential energy first to kinetic energy and finally to heat. This simple example illustrates many of the attributes of thermodynamic. In other words, thermodynamics seeks to answer questions like what is the final equilibrium state of a system is that state stable or unstable, in what manner is heat converted to work and vice versa and what restrictions are placed on the conversion of energy from one form to another. Thermodynamics tries to answer these questions and much more.

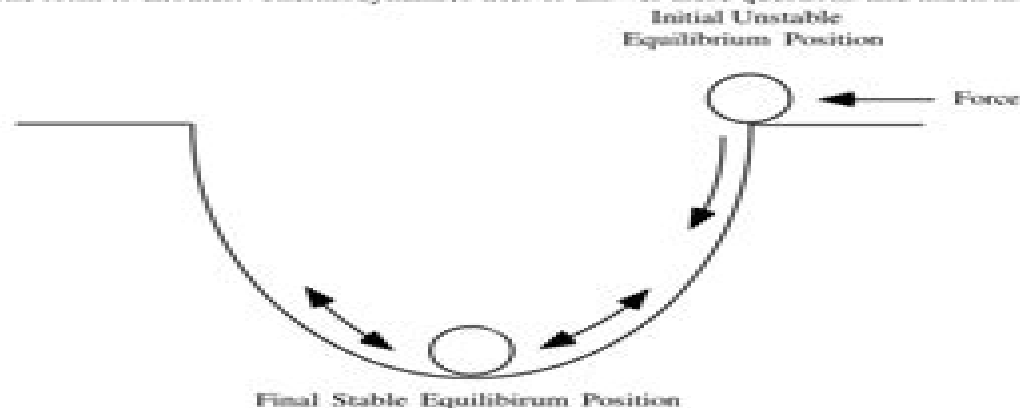


Fig. 1: Energy well showing energy conversion.

While the above example may not be relevant to pharmacy there are many examples where thermodynamics is very important. For example, the process of life itself in which sunlight hits a plant and through photosynthesis is converted to stored chemical energy in the plant carbohydrates. Which can be eaten by a cow and converted to milk lactose and finally eaten by the reader in a bowl of breakfast

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