Principles of Engineering—Day 2—Technology Systems

Key Terms:

System-different items or ideas working as one

Natural system-a classification based upon real affinities, as shown in the structure of all parts of the organisms, and by their embryology.

Technological System- the application of practical sciences to industry or commerce

Goals- the aim or object towards which an endeavour is directed

Inputs- Something put into a system or expended in its operation to achieve output or a result

Processes-A series of actions, changes, or functions bringing about a result

Output- The act or process of producing; production.

Feedback- The return of a portion of the output of a process or system to the input, especially when used to maintain performance or to control a system or process.

Energy- intensity or vitality of action or expression; forcefulness

Desired Output- what is wanted in an output process

System Input- input either into or from a system

Machine- multiple mechanical parts working as one

Explanations

Explain the concept of a system.

To break down individual components or to make a job similiar

Compare a natural system and a technological system.

One is man made and the other is natural

Explain the major types of outputs of a technological system.

Explain the two types of feedback.

Open-loop- does not have a feedback loop; closed-loop- an active feedback loop.