

INTRODUCTION TO THERMAL SYSTEMS ENGINEERING MORAN





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A basic grouping of thermal systems may be established according to whether heat exergy, , work  $Q$  energy,  $W$ , or mass,  $m$ , is transferred through the frontier of the system of interest ('-' if going out, '+' if going in):

- (Q?) Heat dissipation systems: coolers. Heat flows out of the system naturally or accelerated.

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1.3.MethodsofEnergyConversion 11. on Earth for hundreds of millions of years, converted in to chemical energy by the photosynthetic process and stored in the form of gas, coal and oil. Before the industrial revolution, the main source of energy was wood and biomass, which is a secondary form of solar energy.

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