
Conservation of energy

Four questions:

1) What is it?

Many different kinds  ...

a) _____ energy

b) Gravitational _____ energy

c) _____ energy

d) Chemical energy

e) Nuclear energy

f) Others...

2) How can it be stored? (What is E_{sys} ?)

System of particles

Continuum

But, usually....

$$E_{sys} =$$

3) How can it be transported? (How does it cross system boundaries?)

Flow boundaries

a) Kinetic

b) Gravitational potential

c) Internal

d) Others

Non-flow boundaries

a) Work

b) Heat transfer

4) How is it generated and/or consumed?