

energy, E

In mechanics the sum of *potential energy* and *kinetic energy*.

In thermodynamics the *internal energy* or thermodynamic energy increase, ΔU , is the sum of *heat* and *work* brought to the system. Only changes in energy are measurable.

For photons $E = h\nu$, where h is the Planck constant and ν the frequency of radiation.

In relativistic physics $E = mc^2$, where c is the speed of light, and m the mass.

G.B. 12