

### Thermodynamics

The science that studies the relationship of heat with other forms of energy.

### Laws of Thermodynamics

|            |             |                                    |                       |
|------------|-------------|------------------------------------|-----------------------|
| Zeroth Law | Temperature | Thermal equilibrium is transitive. | If A=B, B=C, then A=C |
|------------|-------------|------------------------------------|-----------------------|

|         |        |   |                    |
|---------|--------|---|--------------------|
| 1st Law | Energy | Energy cannot be created or destroyed; it can only be converted from one form to another, or conserved. | $\Delta U = Q - W$ |
|---------|--------|---|--------------------|

|         |         |   |  |
|---------|---------|---|--|
| 2nd Law | Entropy | Entropy of an isolated system always increases. Heat always moves from hotter objects to colder objects, unless energy in some form is supplied to reverse the direction of heat flow |  |
|---------|---------|---|--|

3rd Law



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