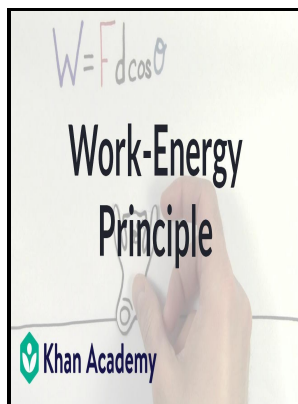


Principles and problems in energetics

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10: Energetics of Chemical Reactions

The third option, stating that Gibb's free energy is zero at equilibrium, is also true. These average bond energies can then be used to estimate the heat of a reaction without measuring all of the required bond energies. This principle can be illustrated by a blood vessel that is suddenly narrowed then returned to its normal diameter.

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Both samples are heated to the same temperature.

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When the mixture is touched with a heated metal rod, however, a violent reaction occurs the reaction is termed exothermic; producing heat and zinc sulfide is formed as the product.

10: Energetics of Chemical Reactions

Since the elevation thus is a state function, the elevation gain is independent of the path.

Thermochemistry and Energetics

Because flowing blood has mass and velocity it has kinetic energy KE.

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