

Index

A

absolute entropy

[4.4: The Third Law of Thermodynamics](#)

B

blackbody radiation

[11.2: Planck's Quantum Theory](#)

bond enthalpies

[3.7: Bond Energies and Enthalpies](#)

C

catalytic efficiency

[10.2: The Equations of Enzyme Kinetics](#)

colligative property

[5.6: Colligative Properties](#)

collision theory

[9.7: Theories of Reaction Rates](#)

competitive inhibition

[10.5: Enzyme Inhibition](#)

Consecutive Reactions (Kinetics)

[9.4: More Complex Reactions](#)

Continuous Flow

[9.10: Fast Reactions in Solution](#)

cooperativity

[10.6: Allosteric Interactions](#)

D

de Broglie wavelength

[11.5: de Broglie's Postulate](#)

Denaturation

[10.8: The Effect of Temperature on Enzyme Kinetics](#)

diffusion

[2.9: Graham's Laws of Diffusion and Effusion](#)

double reciprocal plot

[10.2: The Equations of Enzyme Kinetics](#)

E

effusion

[2.9: Graham's Laws of Diffusion and Effusion](#)

Electron Paramagnetic Resonance

[14.6: Electron Spin Resonance](#)

Electron Spin Resonance

[14.6: Electron Spin Resonance](#)

EPR

[14.6: Electron Spin Resonance](#)

ESR

[14.6: Electron Spin Resonance](#)

F

Flash Photolysis

[9.10: Fast Reactions in Solution](#)

fluorescence

[14.7: Fluorescence and Phosphorescence](#)

G

Gibbs free energy

[4.6: Gibbs Energy](#)

Graham's law

[2.9: Graham's Laws of Diffusion and Effusion](#)

H

hill equation

[10.6: Allosteric Interactions](#)

I

inhibitor

[10.5: Enzyme Inhibition](#)

ionic activity

[5.8: Ionic Activity](#)

ionic strength

[5.8: Ionic Activity](#)

K

KIE

[9.8: Isotope Effects in Chemical Reactions](#)

Kirchoff's Law

[3.6: Thermochemistry](#)

M

mean ionic activity coefficient

[5.8: Ionic Activity](#)

Michaelis constant

[10.2: The Equations of Enzyme Kinetics](#)

molecularity

[9.3: Molecularity of a Reaction](#)

N

Noncompetitive Inhibition

[10.5: Enzyme Inhibition](#)

P

Parallel Reactions (Kinetics)

[9.4: More Complex Reactions](#)

particle in a box

[11.8: Particle in a One-Dimensional Box](#)

phase equilibria

[4.9: Phase Equilibria](#)

phosphorescence

[14.7: Fluorescence and Phosphorescence](#)

photoelectric effect

[11.3: The Photoelectric Effect](#)

Q

quenched flow

[9.10: Fast Reactions in Solution](#)

R

real gases

[2.4: Real Gases](#)

Reversible Reactions (Kinetics)

[9.4: More Complex Reactions](#)

S

specificity constant

[10.2: The Equations of Enzyme Kinetics](#)

stopped flow

[9.10: Fast Reactions in Solution](#)

T

Temperature Dependence of Gibbs Energy

[4.8: Dependence of Gibbs Energy on Temperature and Pressure](#)

Temperature Jump

[9.10: Fast Reactions in Solution](#)

The Hill Equation

[10.6: Allosteric Interactions](#)

Third Law of Thermodynamics

[4.4: The Third Law of Thermodynamics](#)

transition state theory

[9.7: Theories of Reaction Rates](#)

turnover number

[10.2: The Equations of Enzyme Kinetics](#)

U

Uncompetitive Inhibition

[10.5: Enzyme Inhibition](#)

V

vision

[15.3: Vision](#)