

Chemical Equilibrium:

<p>Equilibrium (K) vs Kinetics (k):</p> $A \rightleftharpoons B$ $\text{Rate}_{\text{Forward}} = \text{Rate}_{\text{Reverse}}$ $k_1[A] = k_{-1}[B]$ $\frac{k_1}{k_{-1}} = \frac{[B]}{[A]} = K_{eq}$	<p>Law of Mass Action:</p> $jA + kB \rightleftharpoons lC + mD$ <p>The Equilibrium Constant:</p> $K_C = \frac{[C]^l[D]^m}{[A]^j[B]^k} \quad K_P = \frac{(P_C)^l(P_D)^m}{(P_A)^j(P_B)^k}$ <p>Note: Solids and liquids are not included in the equilibrium expression. They receive a value of 1.</p>
<p>Reaction Adjustments:</p> $A + B \rightarrow C \quad K$ $2A + 2B \rightarrow 2C \quad K^2$ $\frac{1}{2}A + \frac{1}{2}B \rightarrow \frac{1}{2}C \quad K^{1/2}$ $C \rightarrow A + B \quad \frac{1}{K}$	<p>Equilibrium Partial Pressure From K_C:</p> $jA + kB \rightleftharpoons lC + mD$ $K_P = K_C (RT)^{\Delta n} \quad R = 0.08206 \frac{\text{L} \cdot \text{atm}}{\text{mol} \cdot \text{K}}$ $\Delta n = (l + m) - (j + k)$ $T_K = T_C + 273.15$
<p>Additive Reactions:</p> $A + B \rightarrow C \quad K_1$ $C + D \rightarrow E \quad K_2$ $A + B + D \rightarrow E \quad k = k_1 \cdot k_2$	<p>The Reaction Quotient Q:</p> $Q = \frac{[C]^l[D]^m}{[A]^j[B]^k}$ <p>Q → Initial Concentrations K → Equilibrium Concentrations</p>
<p>The Position of Equilibrium:</p> <p>(a) If $K \gg 1$, Reaction = Product Favored.</p> <p>(b) If $0 < K < 1$, Reaction = Reactant Favored.</p>	<p>The Direction of the Reaction:</p> <ol style="list-style-type: none"> If $Q < K$, the reaction will shift to the Right. If $Q > K$, the reaction will shift to the Left. If $Q = K$, the system is at equilibrium.
<p>Le Chatelier's Principle:</p> <p>If a change is imposed on a system at equilibrium, the reaction will shift in a direction that tends to reduce that change.</p>	<p>Quadratic Equations:</p> $ax^2 + bx + c = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Chem Fiesta Equilibrium Equations

Hossein Ghadiri, Calvin Rose



Chem Fiesta Equilibrium Equations:

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Modeling Chemical Transport in Soils Hossein Ghadiri, Calvin Rose, 1992-09-23 Modeling Chemical Transport in Soils Natural and Applied Contaminants provides a comprehensive discussion of mathematical models used to anticipate and predict the consequences and fate of natural and applied chemicals The book evaluates the strengths weaknesses and possibilities for application of numerous models used throughout the world It examines the theoretical support and need for experimental calibration for each model The book also reviews world literature to discuss such topics as the movement of sorbed chemicals by soil erosion the movement of reactive and nonreactive chemicals in the subsurface and groundwater and salt transport in the landscape Modeling Chemical Transport in Soils Natural and Applied Contaminants is an important volume for environmental scientists agricultural engineers regulatory personnel farm managers consultants and the chemical industry

Remediation of Hazardous Waste Contaminated Soils Donald L. Wise, 2018-10-03 This unique single source reference offers a thorough treatment of the remediation of soils contaminated by hazardous wastes and the scientific and engineering issues that must be addressed in creating practical solutions for their reclamation

Metal Speciation and Contamination of Soil Herbert E. Allen, Chin-Pao Huang, George W. Bailey, Alan R. Bowers, 1994-11-29 Metal Speciation and Contamination of Soil provides a thorough overview of the biogeochemical processes governing the behavior transport and bioavailability of heavy metals in contaminated soils and suggests alternative approaches for effective remediation This important new book contains contributions from experts in various disciplines who explore the issues from theoretical experimental and pragmatic perspectives Topics include redox chemistry kinetics of metal reactions spectroscopic characterization of metal ion reactions at surface modeling hydrologic transport phenomena and colloid associated transport of metals through the soil profile to ground water and remediation alternatives

Metal Speciation Theory Analysis Application James R. Kramer, Herbert Ellis Allen, 1988-09 Here is an up to date presentation of metal speciation in soils sediments and water by specialists in analytical chemistry environmental engineering oceanography nutrition and soil chemistry fate and effects measurements and modeling are the major themes in this book with overviews and examples of the significance of metal speciation to solving environmental problems and recommendations for additional research areas This new reference discusses separation methods extraction techniques

bioavailability as related to humans plants and aquatic organisms applications showing importance of speciation in
 groundwater industrial waste treatment systems marines and lakes solid solution interface fate of organic pollutants nature
 of surfaces binding of metals to oxides and sediments dissolved and particulate matter interpretations of reactions in multi
 ligand systems *Proceedings of the 12th Annual Conference on the Physics and Chemistry of Semiconductor Interfaces*,
 29-31 January 1985, Fiesta Inn, Tempe, Arizona Robert S. Bauer,1985 **Proceedings of the International Symposium**
on Water Quality Modeling of Agricultural Non-Point Sources ,1990 **Scientific and Technical Aerospace**
Reports ,1988 Abstracts of Papers American Chemical Society. Meeting,1986 *Water Resources Journal* ,1990
Model-based Exposure Assessment in Terrestrial and Near-shore Marine Environments Otto Fränzle,Imke Jensen,2000
Soils Contaminated by Petroleum Edward J. Calabrese,Paul T. Kostecki,1988 This volume contains the proceedings of
 a conference on the effects of petroleum contaminated soils The contributors discuss chemistry and modelling public and
 environmental health and safety engineering remedial action and regulatory and legal aspects **Applied Science &**
Technology Index ,1975 **Treatise on Geochemistry: Environmental geochemistry** Heinrich D. Holland,2004
Ground Water Contamination Philip B. Bedient,H. S. Rifai,Charles J. Newell,1994 For engineers specializing in
 groundwater hydrology and contamination with a focus on remediation clean up Unlike other volumes on the subject which
 focus on the geology of groundwater this text reference takes an engineering approach Index to Theses with Abstracts
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