

# Chemical Equilibria and Kinetics in Soils

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## BOOK DETAILS

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## BOOK SYNOPSIS

Chemical equilibrium and kinetics; chemical reactions in soil; the equilibrium constant; reaction rate laws; temperature effects; coupled rate laws; special topic; standard states; for further reading; chemical speciation in aqueous solutions; complexation reactions; oxidation reduction reactions; polymeric species; multispecies equilibria; special topic; electrochemical potentials; dissolution precipitation reactions; activity ratio and predominance diagrams; mixed solid phases; reductive dissolution reactions; dissolution reaction mechanisms; surface reactions; adsorption desorption equilibria; adsorption on heterogeneous surfaces; adsorption relaxation kinetics; surface oxidation reduction reactions; transport controlled adsorption kinetics; ion exchange reactions; ion exchange as an adsorption reaction; binary ion exchange equilibria; multicomponent ion exchange equilibria; ion exchange kinetics; heterogeneous ion exchange; colloidal processes; flocculation pathways; the von Smoluchowski Rate Law; scaling the von Smoluchowski Rate Law; Fuchsiam kinetics; the stability ratio; special topic; Cluster fractals.

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