



Soil and Water Chemistry: An Integrative Approach, Second Edition

Michael E. Essington

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The second edition of a bestseller, **Soil and Water Chemistry: An Integrative Approach** maintains the balanced perspective that made the first edition a hugely popular textbook. The second edition includes new figures and tables, new chapters, and expanded exercises in each chapter. It covers topics including soil chemical environment, soil minerals, soil organic matter, cation exchange, oxidation-reduction, mineral weathering and solubility, surface chemistry and adsorption reactions, acidity and salinity in soil materials, and chemical thermodynamics applied to soil systems.

See What's New in the Second Edition:

- Extensive section that details the sources, speciation, and the general behavior of elements in soils
- Expanded section on crystal structure, updated phyllosilicates classifications scheme, inclusion of sepiolite-palygorskite group, and expanded x-ray diffraction section
- Discussion of surface runoff losses of phosphorus from soil and description of the inductivity coupled argon plasma-mass spectroscopy (ICP-MS) analytical technique for determining elemental concentrations in soil solution
- Coverage of the influence of redox processes on the soil chemistry of nonelectroactive elements
- Description of the electrokinetic phenomenon and investigation of the influence of temperature on adsorption
- Expanded discussion on the application of chemical thermodynamics to soil systems

A solutions manual is available upon qualifying course adoption.

Still one of the only texts on this subject, this book provides a comprehensive, modern, and balanced coverage of the chemical and mineralogical characteristics of soils and their chemical processes. It contains more information and topic coverage than required for an average, single-semester course. This extensive coverage is by design, giving you the latitude to pick your own essential topics while providing additional information or a more advanced treatment when needed. Figures and tables make the information accessible and each problem has been tested and is relevant and doable, but asks more of students than to simply generate a number. This format allows students to understand the concepts and recognize that their

computations have physical meaning.

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