

## Principles of Soil Chemistry



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*This sort of publication is every thing and helped me seeking ahead of time plus more. I am quite late in start reading this one, but better then never. I found out this pdf from my dad and i recommended this pdf to learn.*

*(Alex Jenkins)*

## PRINCIPLES OF SOIL CHEMISTRY



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CRC Press. Hardcover. Book Condition: New. Hardcover. 390 pages. Learn the secrets of soil chemistry and its role in agriculture and the environment. Examine the fundamental laws of soil chemistry, how they affect dissolution, cation and anion exchange, and other reactions. Explore how water can form water-bridges and hydrogen bonding, the most common forces in adsorption, chelation, and more. Discover how electrical charges develop in soils creating electrochemical potentials forcing ions to move into the plant body through barriers such as root membranes, nourishing crops and plants. You can do all this and more with *Principles of Soil Chemistry, Fourth Edition*. Since the first edition published in 1982, this resource has made a name for itself as a textbook for upper level undergraduates and as a handy reference for professionals and scientists. This fourth edition reexamines the entire reach of soil chemistry while maintaining the clear, concise style that made previous editions so user-friendly. By completely revising, updating, and incorporating a decades worth of new information, author Kim Tan has made this edition an entirely new and better book. See what's new in the Fourth Edition: Reexamines atoms as the smallest particle that will enter into chemical reactions by probing new advances; testifies the presence of subatomic particles and concepts such as string theory; underscores oxygen as the key element in soil air and atmosphere for life on earth; reevaluates the idea of transformation of orthoclase into albite by simple cation exchange reactions as misleading and bending scientific concepts of ion exchange over the limit of truth; examines the role of fertilizers, sulfur, pyrite, acid rain, and nitrogen fixation in soil acidity, underscoring the controversial effect of nitrification on increasing soil acidity over time; addresses the old and new approaches to humic acids by comparing the traditional operational concept against...



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