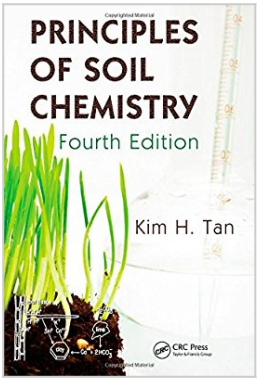

Principles of Soil Chemistry, Fourth Edition (Books in Soils, Plants, and the Environment)

By Kim H. Tan

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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.**

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- Proposes soil organics, such as nucleic acids of DNA and others, to also adsorb cation ions held as diffusive ion clouds around the polymers

Tan explains, in easy and simple language, the chemical make-up of the four soil constituents, their chemical reactions and interactions in soils as governed by basic chemical laws, and their importance in agriculture, industry, and the environment. He differentiates soil chemistry from geochemistry and physical chemistry. Containing more than 200 equations, 123 figures, and 38 tables, this popular text and resource supplies a comprehensive treatment of soil chemistry that builds a foundation for work in environmental pollution, organic and inorganic soil contamination, and potential ecological health and environmental health risks.

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