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Soil and Water Chemistry: An Integrative Approach (Hardback)

By Michael E. Essington

Taylor Francis Inc, United States, 2015. Hardback. Book Condition: New. 2nd Revised edition. 251 x 175 mm. Language: English Brand New Book. 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...



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