Humus Chemistry. Genesis, Composition, Reactions. 2nd Edition

Description: A reference text focusing on basic organic chemistry and reactions of naturally occurring organic substances in soils. Covers pools of organic matter in soils, transformations, methods of extraction and fractionation. Section two deals primarily with the chemistry of known classes of organic compounds in soils including saccharides, lipids and constituents containing nitrogen, phosphorus and sulfur. Section three is concerned with basic organic chemistry of humic substances, followed by the importance of organic matter associations and interactions. Contains new chapters on NMR spectroscopy, analytical pyrolysis and on chemical structures.

Contents: Partial table of contents:

Extraction, Fractionation, and General Chemical Composition of Soil Organic Matter.
Organic Forms of Soil Nitrogen.
Organic Phosphorus and Sulfur Compounds.
Soil Carbohydrates.
Soil Lipids.
Biochemistry of the Formation of Humic Substances.
Reactive Functional Groups.
Structural Components of Humic and Fulvic Acids as Revealed by Degradation Methods.
Structural Basis of Humic Substances.
Spectroscopic Approaches.
Colloidal Properties of Humic Substances.
Electrochemical and Ion–Exchange Properties of Humic Substances.
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