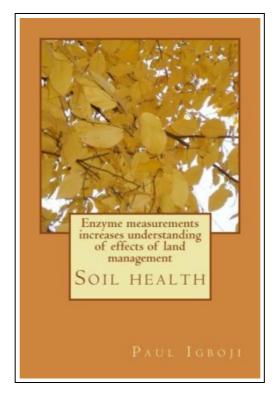
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ENZYME MEASUREMENTS INCREASES UNDERSTANDING OF EFFECTS OF LAND MANAGEMENT: SOIL HEALTH (PAPERBACK)



Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Large Print. Language: English . Brand New Book ***** Print on Demand *****. Enzymes show extraordinary specificity in catalysing biological reactions. A systematic classification of enzymes has been adopted on the recommendation of the International Enzyme Commission. The new system divides enzymes into six major classes, which are subdivided further into subclasses according to the type of reaction catalysed. For example a recommended name, a systematic name and a classification name for phosphodiesterase is phosphoric diester hydrolase while its classification number is EC 3.1.4. Research into soil enzymes has increased steadily over the last 30 years. Various activities associated with biotic and abiotic components contribute to the overall activity of soil enzymes. According to some scientists an enzyme may be associated physically with proliferating animal, microbial, and plant cells and it may be located in the cytoplasm in the periplasm of Gram-negative bacteria or attached to the outer surface of cells. They can also be present in non-proliferating cells (for example, microbial spores or protozoan cysts), in entirely dead cells or in cell debris. Other enzymes are present as an extracellular soluble molecule. They can also be temporarily associated in enzyme-substrate complexes, adsorbed to clay minerals or associated with humic colloids. Some of these categories according to experts may represent various stages in the life of an enzyme. An intracellular enzyme may still function after the cell dies and thus it becomes associated with cell debris. It may be released in the aqueous phase and may eventually be adsorbed in an active form by soil colloids. Enzyme-clay and enzyme-organic polymer complexes show remarkable resistance to proteolytic and thermal denaturation. Several methods exist for the measurement of enzyme activities. Experts cautioned about the interpretation of results arising from measurement of

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