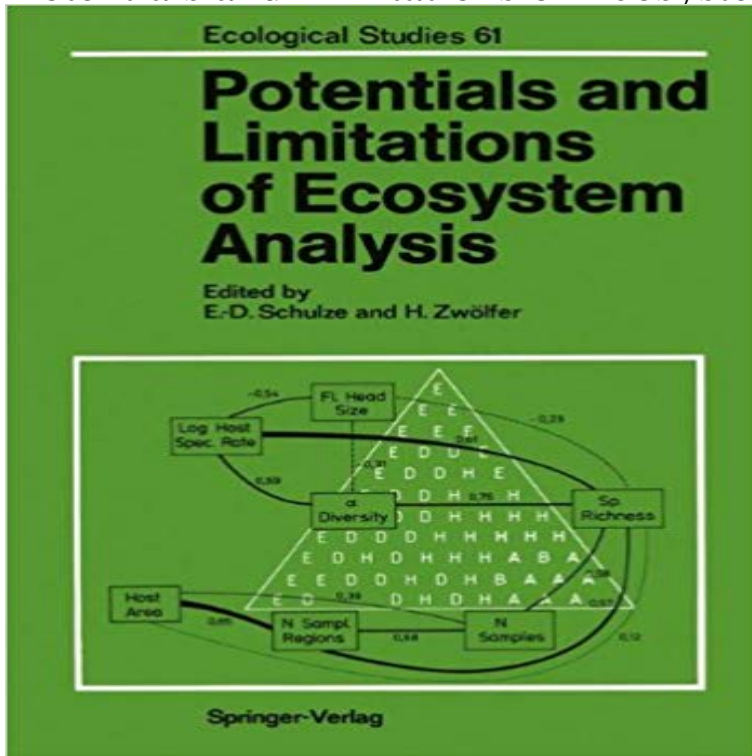


Potentials and Limitations of Ecosystem Analysis (Ecological Studies)



The identification of inputs and outputs is the first and probably most important step in testing and analyzing complex systems. Following accepted natural laws such as the conservation of mass and the principle of electroneutrality, the input/output analysis of the system, be it steady or in connection with perturbations will reveal the status dynamic, will identify whether changes are reversible or irreversible and whether changing the input will cause a hysteresis response. Moreover, measurements of input and output fluxes can indicate the storage capacity of a system, its resilience to buffer or amplify variations of the external input, and it can identify structural changes. Therefore, to a certain extent, the input/output analysis can facilitate predictions about the ecosystem stability. The measurement of fluxes and the determination of inputs and outputs of ecosystems are, in many aspects, analogous to measurements done by engineers when testing an electronic apparatus. The first step is the measurement of the input/output properties of the instrument as a whole, or of various circuit boards, and the comparison of these with the expected variations of the original design. Varying input and output can give valuable information about the stability and the regulatory properties of the device. Nevertheless, only the circuit as an entity has specific properties which cannot be anticipated if the individual components are investigated regardless of their position. Also, the instrument as a whole will have different input/output properties than its subcircuits.

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