

1. Introduction — The Soils Around Us

- Soil is a basic resource that needs to be properly managed and protected from degradation and conversion to the wrong use.
- Soil is composed of individual particles of sand, silt, and clay.
- Soil is not just a surface, but is a three-dimensional unit of landscape and soil properties vary with depth in the soil.

Solar energy — driving force in an ecosystem

- Provides energy for plant growth through photosynthesis
 - Energy is stored as organic compounds that make up the plants
- Plants rely on soil for water, nutrients, and physical support

Economic commodity — if we think of soil (land) as a resource

- Soil occurs at the interface of the Earth's lithosphere, hydrosphere, atmosphere, and biosphere
- Hence soil is composed of elements of each of these realms
 - Mineral material, organic material, water, and air

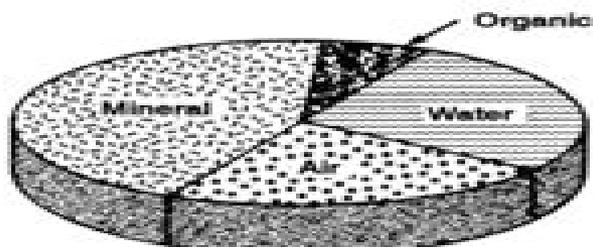


Figure 1.3: Soil is 3 Dimensional

Hockey puck model — a sample of soil would contain solids, water, and air in varying proportions depending on the conditions

Soil Science Lecture Notes

H. Joseph Kleiss



Soil Science Lecture Notes:

Reviewing **Soil Science Lecture Notes**: Unlocking the Spellbinding Force of Linguistics

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