

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

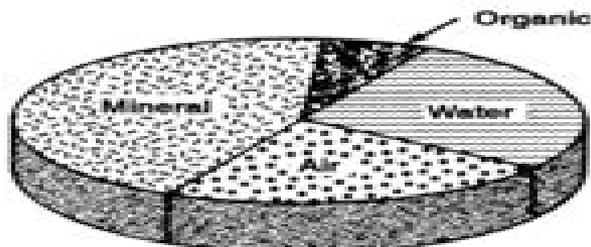


Figure 1.3: Soil is 3 Dimensional

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

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Zhe Xu



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The Top Books of the Year Soil Science Lecture Notes The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Soil Science Lecture Notes : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Soil Science Lecture Notes : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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