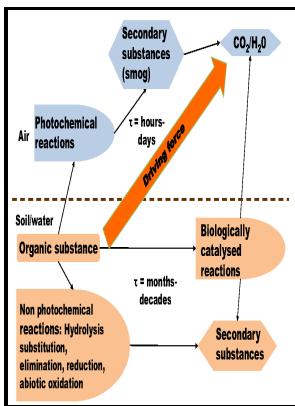


Bioremediation of pollutants in soil and water

ASTM - Guide: What Is Bioremediation, Bioremediation Benefits, & More



Description: -

Municipal finance -- United States -- Bibliography.

Municipal finance -- Bibliography.

Water -- Purification.

Soil remediation.

Bioremediation.Bioremediation of pollutants in soil and water

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Bioremediation

For example, trichloroethylene TCE is converted to vinyl chloride, a known carcinogen, via a series of biological reactions, resulting in a sequencing removal of chlorine atoms.

16.6C: The Degradation of Synthetic Chemicals in Soils and Water

Natural species are not fast enough to break down certain compounds so to facilitate must be genetically modified through DNA manipulation; genetically engineered microbes act as break down pollutants much faster than the natural species and highly compete with the indigenous species, predators and also various abiotic factors. Unfortunately, take a long time. For the successful implementation of bioremediation process, a brief assessment of a contaminated site is prerequisite to augment environmental settings to accomplish a desirable effect.

16.6C: The Degradation of Synthetic Chemicals in Soils and Water

Relative Biodegradability of Different Compounds: Order of biodegradation is as follows from simple to complex compounds. On Site Treatment: Bioremediation can be carried out on site treatment, without causing a major disruption of normal activities.

A General Essay on Bioremediation of Contaminated Soil

Frontiers in Microbiology 8, 1966.

Bioremediation

If the contaminated ecosystem such as soil and groundwater does not have enough of the right microbes, they can be added bioaugmentation. The conventional techniques used for remediation have been to dig up contaminated soil and remove it to a landfill, or to cap and contain the contaminated areas of a site. Environment International 30: 587 — 601.

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