

# Bioreactor and ex situ biological treatment technologies

## Battelle Press - Bioremediation techniques

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China -- In art.

Chinnery, George, -- 1774-1852.

United States -- Foreign relations -- 20th century

Women authors, American -- Biography

Admirals spouses -- United States -- Biography

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Diplomats -- Belgium -- Social life and customs -- 20th century

Diplomats -- England -- London -- Social life and customs -- 20th century

Ambassadors spouses -- United States -- Biography

Kirk, Alan Goodrich, -- 1888-1963 -- Marriage

Kirk, Lydia

Muhammad, -- Prophet, -- d. 632 -- Military leadership.

England -- Church history -- Sources

Denver Metropolitan Area (Colo.) -- Population.

Denver Metropolitan Area (Colo.) -- Statistics, Vital.

Labor market -- Netherlands -- Randstad.

Housing -- Netherlands -- Randstad.

Paris. -- Théâtre Montparnasse.

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Business -- Computer programs

Microsoft Office

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Latin American literature -- Women authors -- History and criticism -

- Bibliography.

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Notes: Includes bibliographical references and indexes.

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Tags: #Biological #treatment  
#solid\_hazardous\_waste

## BIOREACTOR AND EX SITU BIOLOGICAL TREATMENT TECHNOLOGIES

Some microbes may die and some may thrive. The use of nanomaterials could help reduce the toxicity of pollutant to microorganisms.

### Ex situ Bioremediation

Moreover, following phytoremediation, there might be improved soil fertility due to

## 2. Ex-situ Bioremediation

\* Ex situ treatment involves excavation of the contaminated soil, transporting it to the place of disposal, mixing it with bulking agents as manure and moisture and treating by inoculating with the necessary microbes along with nutrients required for their proliferation.

• Composting (solid phase)

• slurry phased Bioremediation (Bioreactor)



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input of organic matter Mench et al.

## Remediation Technology Descriptions for Cleaning Up Contaminated Sites

Air Sparging involves the injection of air or oxygen through a contaminated aquifer to remove volatile and semivolatile organic contaminants by volatilization. The cells form a sludge, which is settled out in a clarifier, and is either recycled to the aeration basin or disposed.

## Biological treatment of N

During the initial stages of decomposition, the pH is acidic ~5.

## Ex situ Bioremediation

Electron donor half reaction Rd 2.

## **Remediation Technology Descriptions for Cleaning Up Contaminated Sites**

Recently, researchers have focused on coupling PRB and other methods such as electrokinetics for treatment of different class of pollutants García et al.

### **Bioremediation techniques**

Partial nitrification ANAMMOX in submerged attached growth bioreactors with smart aeration at 20 °C. Moreover, bioreactor-based bioremediation is not a popular full-scale practice due to some reasons.

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