

Anaerobic Reactors Biological Wastewater Treatment Volume 4 Biological Wastewater Treatment Series By De Lemos Chernicharo Carlos Augusto 2007 Paperback

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Anaerobic treatments on wastewater are normally implemented when treating more concentrated wastewater. The anaerobic sludge contains various groups of micro organisms that work together to eventually convert organic material to biogas via hydrolysis and acidification. Biogas typically consists of 70% methane (CH₄) and 30% carbon dioxide (CO₂) with residual fractions of other gases (e.g. H₂ and H₂S).

Anaerobic Biological Wastewater Treatment | EMIS

Anaerobic wastewater treatment is a type of biological treatment where anaerobic microorganisms are used to break down and remove organic contaminants from wastewater. While anaerobic treatment systems may take a variety of forms, they generally include some form of bioreactor or repository capable of maintaining the oxygen-free environment needed to support the process of anaerobic digestion.

What Is Anaerobic Wastewater Treatment and How Does It Work?

Anaerobic sludge blanket reactors are a different sort of anaerobic treatment where the wastewater flows through suspended sludge particles known as a "blanket". The anaerobes in the sludge digest the organic components in the water which then collect as granules at the base of the reactor tank.

How Anaerobic Wastewater Treatment Works | Water Treatment ...

giving a state-of-the-art presentation of the science and technology of biological wastewater treatment. Titles in the Biological Wastewater Treatment series are: Volume 1: Wastewater Characteristics, Treatment and Disposal Volume 2: Basic Principles of Wastewater Treatment Volume 3: Waste Stabilisation Ponds Volume 4: Anaerobic Reactors Volume 5: Activated Sludge and Aerobic Biofilm Reactors Volume 6: Sludge Treatment and Disposal

Anaerobic Reactors - IWA Publishing

Biological wastewater treatment (anaerobic-aerobic) technologies for safe discharge of treated slaughterhouse and meat processing wastewater. ... Additionally, the performance of anaerobic reactors can be greatly influenced with the conversion of proteins to unionized ammonia and degradation of lipids to long chain fatty acids (LCFAs).

Biological wastewater treatment (anaerobic-aerobic ...

Anaerobic Reactors is the fourth volume in the Biological Wastewater Treatment series. The fundamentals of anaerobic treatment are presented in detail, including its applicability, microbiology, biochemistry and main reactor configurations. Two reactor types are analysed in more detail, namely anaerobic filters and especially UASB (upflow anaerobic sludge blanket) reactors.

Anaerobic Reactors | IWA Publishing

Lettinga G, van Velsen AFM, Hobma SW, de Zeeuw W, Klapwijk A (1980) Use of the upflow sludge blanket (USB) reactor concept for biological wastewater treatment, especially for anaerobic treatment. Biotechnol Bioeng 22 (4):699-734 CrossRef Google Scholar

Anaerobic Reactors Used for Waste Water Treatment ...

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Biological wastewater treatment (anaerobic and aerobic digestion reactors) takes advantage of the ability of certain microorganisms (including bacteria) to assimilate organic matter and nutrients dissolved in the water for their own growth, thus removing soluble components in the water. Soluble organic matter is assimilated by microorganisms as a carbon source.

Aerobic digestion reactors for biological wastewater treatment

Biological wastewater treatment is designed to degrade pollutants dissolved in effluents by the action of microorganisms. The microorganisms utilize these substances to live and reproduce. Pollutants are used as nutrients. A prerequisite for such degradation activity, however, is that the pollutants are soluble in water and nontoxic.

Biological Wastewater Treatment - an overview ...

Recently, anaerobic MBRs have seen successful full-scale application to the treatment of some types of industrial wastewaters—typically high-strength wastes. Example applications include the treatment of alcohol stillage wastewater in Japan [20] and the treatment of salad dressing/barbecue sauce wastewater in the United States.

Membrane bioreactor - Wikipedia

Anaerobic Reactors is the fourth volume in the Biological Wastewater Treatment series. The fundamentals of anaerobic treatment are presented in detail, including its applicability, microbiology, biochemistry and main reactor configurations.

Anaerobic Reactors: Biological Wastewater Treatment Volume ...

Anaerobic biological treatment Turn wastewater and/or waste into power Anaerobic treatment systems are based on a biological process operated and controlled under anaerobic conditions that effectively treats COD, BOD and VSS while producing biogas and very little biomass (without oxygen).

Anaerobic biological treatment - Nijhuis Industries

Join our online CPD course for professionals, engineers and PhD students working in the areas of biological wastewater treatment and anaerobic digestion. Learn to optimise and design biological wastewater treatment and anaerobic digestion processes to maximise efficiency while minimising capital and operating costs.

Biological Wastewater Treatment and Anaerobic Digestion ...

In this study, the treatment of poultry slaughterhouse wastewater (PSW) was evaluated using two new down-flow high-rate anaerobic bioreactor systems (HRABS), including the down-flow expanded granular bed reactor (DEGBR) and the static granular bed reactor (SGBR). These two bioreactors have demonstrated a good performance for the treatment of PSW with removal percentages of the biochemical ...

Performance evaluation and kinetic modeling of down-flow ...

In recent years considerable effort has been made in the Netherlands toward the development of a more sophisticated anaerobic treatment process, suitable for treating low a strength wastes and for applications at liquid detention times of 3–4 hr.

Use of the upflow sludge blanket (USB) reactor concept for ...

Aerobic and Anaerobic Biological Treatment Aerobic biological treatment is a process carried out using the ambient air, or oxygen. The anaerobic process does not use oxygen.

Biological wastewater treatment | Detectronic

Lagoons and septic tanks may use anaerobic processes, but the best-known anaerobic treatment is anaerobic digestion, which is used for treating effluent from food and beverage manufacturing, as well as municipal wastewater, chemical effluent, and agricultural waste.

What Is Biological Wastewater Treatment? | Fluence

SBR reactors treat wastewater such as sewage or output from anaerobic digesters or mechanical biological treatment facilities in batches. Oxygen is bubbled through the mixture of wastewater and activated sludge to reduce the organic matter (measured as biochemical oxygen demand (BOD) and chemical oxygen demand (COD)).

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