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Webinar: Modelling
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*Cycle Modeling of
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Degradation Of
The Basics of Anaerobic
Municipal Solid
Digestion of Biowaste*

**Lecture 35: Anaerobic
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~~34: Anaerobic~~

~~Degradation Processes~~

3.8 Anaerobic Digestion

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~~Biodegradation~~

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Youthful Brain A**

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~~Model For Anaerobic Degradation~~

A kinetic study for an anaerobic batch reactor was performed to evaluate quantitatively the effect of substrate characteristics on the anaerobic degradation of organic waste. The kinetic behavior of anaerobic degradation was described as a first order series reaction that

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is a consecutive reaction of acidogenic- and methanogenic-fermentation.

~~A Model for Evaluation of Anaerobic Degradation...~~

The model developed solves the mass and energy balance of waste decay, which computes the rate of gas generation, change of gas and gas flux through

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the system. This study focuses on anaerobic phase of biodegradation of biomass and the degradation of the biomass was assumed to follow first order kinetics.

~~A Comprehensive Model for Anaerobic Degradation in Bio ...~~
Kinetic models of anaerobic digestion

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(AD) are widely applied to soluble and particulate substrates, but have not been systematically evaluated for bioplastics. Here, five models are evaluated to determine their suitability for modeling of anaerobic biodegradation of the bioplastic poly(hydroxybutyrate-co-hydroxyvalerate)

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(PHBV): (1) first-order kinetics with and without a lag phase, (2) two-step first-order, (3) Monod (4) Contois, and (5) Gompertz.

~~Assessment of models for anaerobic biodegradation of a ...~~
A Model for Evaluation of Anaerobic Degradation Characteristics of

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Organic Waste:

Focusing on Kinetics,
Rate-Limiting Step

Article (PDF Available)

in Environmental

Technology

16(8):775-784 ...

~~(PDF) A Model for~~

~~Evaluation of Anaerobic~~

~~Degradation ...~~

Ascorbic acid loss in

thermally treated rose

hip pulp was modeled

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Isothermal experiments in the temperature range of 70–95C were utilized to determine the kinetics of ascorbic acid loss in the pulp during heating under anaerobic circumstances. Changes in ascorbic acid decomposition followed a first-order reaction.

KINETIC MODELING

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~~OF ANAEROBIC
THERMAL
DEGRADATION OF ...~~

A Model For Anaerobic
Degradation Of
Municipal Solid Waste

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Model For Anaerobic

Degradation Of

Municipal Solid Waste

Keywords: a, model,

for, anaerobic,

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degradation, of,
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Waste

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Degradation Of
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Abstract This work
investigated the
anaerobic degradation
of the model azo dye
Remazol Yellow Gold
RNL in an upflow

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anaerobic sludge
blanket reactor (UASB)
and two submerged
anaerobic membrane
(SAMBR) bioreactors,
one of which
(SAMBR-1) was
operated with powdered
activated carbon (PAC)
in its interior.

~~Degradation of a model
azo dye in submerged
anaerobic ...~~

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GMS TUTORIALS.

RT3D – Sequential
Anaerobic Degradation of
Municipal Solid
Waste
PCE TCE DCE VC.

This tutorial illustrates the steps involved in modeling sequential anaerobic degradation of PCE using the RT3D model. Since the flow model used in this simulation is the same as the flow model used in RT3D –

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Instantaneous Aerobic
Degradation, the steps
involved in building the
flow model will not be
described in this
tutorial.

~~RT3D~~ Sequential
~~Anaerobic Degradation~~
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Fundamentals of

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~~Aerobic & Anaerobic
Biodegradation Process.~~
Aerobic and Anaerobic
Biodegradation. There
are four key biological
and chemical stages of
anaerobic digestion:

Hydrolysis

Acidogenesis

Acetogenesis

Methanogenesis.

~~Aerobic and Anaerobic
Biodegradation—~~

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In 1906, Karl Imhoff created the Imhoff tank; an early form of anaerobic digester and model wastewater treatment system throughout the early 20th century. After 1920, closed tank systems began to replace the previously common use of anaerobic lagoons –

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covered earthen basins used to treat volatile solids. Research on anaerobic digestion began in earnest in the 1930s.

~~Anaerobic digestion~~
~~Wikipedia~~

A small number of so-called “intra-aerobic” anaerobic bacteria generate O_2 from anaerobic electron

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anaerobic degradation of hydrocarbons, enabling a lifestyle with hydrocarbons degraded via standard mono- or dioxygenases, but examples of truly anaerobic degradation pathways are known for all types of hydrocarbons, even those with the highest C–H dissociation energies. The topic of this review is these truly

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anaerobic enzyme
reactions used by
hydrocarbon-degrading
bacteria that cannot
generate reactive
oxygen ...

~~Anaerobic Degradation
of Hydrocarbons:
Mechanisms of ...~~

Data on the influence of
substrate composition
on the anaerobic
degradation of peptone

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in a bench-scale packed-bed reactor are presented and discussed. The experiments were conducted in a...

~~(PDF) Anaerobic
Degradation of Protein:
Simplified Kinetic ...~~

In this study, we present a first laboratory model for anaerobic degradation of SQ by bacterial consortia in

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two tiers to acetate and hydrogen sulfide (H_2S). For the first tier, SQ-degrading *Escherichia coli* K-12 was used. It catalyzes the fermentation of SQ to 2, 3-dihydroxypropane-1-sulfonate (DHPS), succinate, acetate and formate, thus, a novel type of mixed-acid fermentation.

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~~Anaerobic Degradation
of the Plant Sugar
Sulfoquinovose ...~~

The mechanisms for
DHPS degradation in
the anaerobic biosphere
are not well understood.
Here, we report the
bioinformatics-aided
discovery, biochemical,
and structural
characterizations of two
O₂-sensitive glyceryl
radical enzymes that use

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distinct radical-mediated mechanisms for DHPS degradation in anaerobic bacteria from diverse terrestrial and marine sources as well as human gut.

~~Two radical-dependent mechanisms for anaerobic degradation ...~~

Elevated levels of methane indicate fermentation is

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occurring in a highly anaerobic environment and that reducing conditions are

appropriate for anaerobic degradation.

For chlorinated aliphatic hydrocarbons (CAHs) elevated levels of ethene and ethane (at least an order of magnitude greater than background levels) can be used to infer anaerobic

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dechlorination of CAHs.

Degradation Of
Anaerobic
Municipal Solid
Waste
Bioremediation (Direct)

~~CLU IN~~

Anaerobic degradation of proteins is reported to be slower compared to degradation of other biopolymers [14] [15] [16][17][18]. For example, carbohydrates are considered to be favourable acidified ...

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~~(PDF) Protein
degradation in anaerobic
digestion ...~~

The significance of the surface area in anaerobic degradation of particulate substrates was investigated through a kinetic model where the hydrolysis rate was based on the sample surface area.

Good agreements were

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obtained between model
and experiments carried
out with samples of
various specific surface
areas.

~~Anaerobic degradation
of organic
materials—significance~~

...

The reaction being
simulated is anaerobic
PCE dechlorination with
sequential, first- order,

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anaerobic kinetics.

Degradation of PCE all the way to VC is assumed to be

anaerobically favorable and the degradation kinetics are assumed to be first order in nature.

~~GMS Tutorials RT3D
Sequential Anaerobic
Degradation: PCE ...~~

The best known
Anaerobic Digestion

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Modelling by
Mathematical Computer
Analysis is that
produced by the
IWA. The purpose of
Mathematical
Computational Analysis
to provide an Anaerobic
Digestion Model, is to
provide a basis for
anaerobic digestion
modelling.

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Degradation Of Municipal Solid Waste