# Experimental investigations on the influence of physico-chemical parameters on anaerobic degradation in MBT residual waste



Filesize: 2.23 MB

#### Reviews

It is simple in read through safer to comprehend. This is for anyone who statte that there was not a really worth reading through. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Samanta Klein)

# EXPERIMENTAL INVESTIGATIONS ON THE INFLUENCE OF PHYSICO-CHEMICAL PARAMETERS ON ANAEROBIC DEGRADATION IN MBT RESIDUAL WASTE



Cuvillier Verlag Mrz 2011, 2011. Buch. Book Condition: Neu. 211x146x5 mm. Neuware - In this work, MBT residual waste was used for experimental studies to investigate the influence of crucial parameters influencing biochemical processes in anaerobic degradation in residual wastes from MBT. Themoisture content is one of the most critical parameters influencing biogas production in waste as well asnutrient transport. Batch experiments were carried out to correlate moisture content and biogas production in MBT residual waste. Moreover, quantification and monitoring of heterogeneous moisture distribution in alandfill body is critical for mechanical landfill stability and landfill gas emission control. For quantitativelymonitoring in-situ moisture distribution in in MBT residual waste, a novel geoelectrical technique wassuccessfully applied and evaluated on laboratory scale. The pH development in leachate from MBT residualwastes and the relating acid buffering intensity was found to be important for facilitating biochemicalconversion of solid organic carbon matter to biogas. At unadjusted conditions, a positive correlation betweenstrength of acidification phase and biogas production, especially methane production, could be found. Thereby, the acid buffer intensity of MBT residual wastes proved to be crucial for pH stabilisation. Due tomaximum cumulative biogas production at neutral pH, pH regulation at pH 7 is recommended for wastetreatment in MBT plants and landfill bioreactors. The bioavailability of metabolic intermediates wasinvestigated with regard to their sorption behaviour on MBT residual wastes. Alcohols of a homologousseries with increasing octanol-water partition coefficients POW were used as surrogates for carboxylic acids. Activated carbon was used as a reference sorption system due to its high specific surface area. Bydetermining the distribution coefficient KD, the bioavailability factor Bf was quantified and denotes thatbioavailability of the surrogates was practically unlimited. Transferring these results to intermediates of theanaerobic degradation with similar log POW values, e.g. acetic acid and propionic acid, reveals thatbiodegradation of certain organic substrates e.g. acetic acid or...

- Read Experimental investigations on the influence of physico-chemical parameters on anaerobic degradation in MBT residual waste Online
- Download PDF Experimental investigations on the influence of physico-chemical parameters on anaerobic degradation in MBT residual waste

### Other eBooks



Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel's System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This historic book may have numerous typos and missing text. Purchasers can download...

Read ePub »



California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

 $Pearson, United States, 2015. \, Loose-leaf. \, Book \, Condition: \, New. \, 10th. \, 249 \, x \, 201 \, mm. \, Language: \, English \, . \, Brand \, New \, Book. \, NOTE: \, Used \, books, \, rentals, \, and \, purchases \, made \, outside \, of \, Pearson \, If \, purchasing \, or \, renting \, from \, companies...$ 

Read ePub »



Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Book. Book Condition: New. 10th. 250 x 189 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

Read ePub »



#### Who am I in the Lives of Children? An Introduction to Early Childhood Education

Pearson Education (US), United States, 2015. Paperback. Book Condition: New. 10th Revised edition. 254 x 201 mm. Language: English. Brand New Book. Note: This is the bound book only and does not include access...

Read ePub »



Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext - Access Card Package

Pearson, United States, 2015. Paperback. Book Condition: New. 10th. 251 x 203 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies...

Read ePub »



#### A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)

Dover Publications, 2011. Paperback. Book Condition: New. No Jacket. New paperback book copy of A Dog of Flanders by Ouida (Marie Louise de la Ramee). Unabridged in easy to read type. Dover Children's Thrift Classic.

Save PDF »



#### Read Write Inc. Phonics: Green Set 1 Storybook 1 on the Bus

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 210 x 144 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read Save PDF »



### Decameron and the Philosophy of Storytelling: Author as Midwife and Pimp (Hardback)

Columbia University Press, United States, 2005. Hardback. Book Condition: New. New.  $236 \times 155$  mm. Language: English . Brand New Book. In this creative and engaging reading, Richard Kuhns explores the ways in which Decameron

Save PDF »



#### The Adventures of Sheriff Williker: /Book 1: The Case of the Missing Horseshoe

Createspace, United States, 2014. Paperback. Book Condition: New. Kim Hansen (illustrator). large type edition. 216 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. A missing horseshoe for a prize winning Save PDF »



## Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to

Save PDF »