



Conversion Technologies for Biomass to Renewable Energy

By Jiayang-Cheng

2015. Soft cover. Book Condition: New. 1st Edition. Chapter 1 Biomass resources(Guangqing Liu and Jay J.Cheng) 1.1 Organic waste materials 1.1.1 Animal manure 1.1.2 Municipal solid organic waste 1.1.3 Industrial organic waste 1.2 Agricultural residues 1.2.1 Rice straw 1.2.2 Corn stover 1.2.3 Wheat straw 1.2.4 Other agricultural residues 1.3 Oil and grease 1.3.1 Plant oils 1.3.2 Oilrich algae 1.3.3 Waste oils and fats 1.4 References Chapter 2 Biomass logistics(Guangqing Liu and Maurycy Daroch(microalgae)) 2.1 Feed stock production 2.1.1 Forestry waste 2.1.2 Herbaceous biomass 2.1.3 Algal biomass cultivation 2.2 Harvesting 2.2.1 Livestock and poultry manure collection 2.2.2 Collection,storage and transportation of urban household organic waste 2.2.3 Forestry biomass storage and transportation 2.2.4 Crop straw collection 2.2.5 Algae harvesting and dewatering 2.3 Transport 2.4 Storage 2.5 References Chapter 3 Biogas production(Guangqing Liu) 3.1 Anaerobic digestion:principles for biogas production 3.1.1 Twostage theory of anaerobic digestion 3.1.2 Calculation of theoretical methane yield in anaerobic digestion 3.1.3 Microorganisms in anaerobic digestion 3.1.4 Inhibition mechanism of intermediate product in anaerobic digestion process 3.2 Biogas production at different temperatures 3.2.1 Psychrophilic anaerobic digestion 3.2.2 Mesophilic anaerobic digestion 3.2.3 Thermophilic anaerobic digestion 3.3 Anaerobic digesters 3.3.1 Anaerobic biological pond 3.3.2 Continuously stirred tank reactor 3.3.3 Upflow anaerobic sludge...

Reviews

This book is definitely worth getting. It usually will not price too much. Its been printed in an extremely simple way in fact it is only right after i finished reading this publication where basically altered me, modify the way i think. -- Avery Daugherty

This ebook is wonderful. It generally fails to price too much. Your lifestyle period will be transform as soon as you comprehensive reading this ebook.

-- Otho Bergstrom