

农业废弃物综合利用技术的试验研究

An Investigation on Comprehensive Utilization of Agricultural Wastes

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中文摘要:

阐述了有关农业废弃物综合利用试验研究成果。在农业废弃物的固化技术方面,指出了工艺参数对挤压成型机工作性能的影响,提出了热压成型工艺参数的大致范围;在生物质块的炭化技术方面,给出了热解工艺及其操作规范;在热解产物回收技术方面,指出了热解产物回收的工艺流程及其应用。

英文摘要:

This paper reveals some results of experimental research on comprehensive utilization of agricultural wastes. The utilization is composed of three interrelated parts: 1. Solidification, there are many different kinds of residues in agricultural production, such as rice hull, straw etc., which can be extruded to make biomass briquettes under a particular condition. The influence of technological parameters such as working pressure, heating temperature and time of residence in the extruder is indicated and a rough range of parameters suggested. 2. Charred technique of biomass briquette. Research showed that pyrolysis of biomass briquette produces five components: gas, liquid tar, solid tar, fixed carbon and ash. The mass ratio of pyrolysis products goes up or down as the heating temperature changes. The process and rules of operation are discussed. 3. Recovery technique of pyrolysis products. The mixed gas from the charring furnace are processed by means of condenser, that is, a part of the gas changed into liquid condensate while another remain to be noncondensing gas. A good many of useful by-products may be obtained by processing the liquid condensate, while the noncondensing gas may be used as a fuel. The technological process of pyrolysis recovery and its application are given.

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