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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 38 pages. OCLC Number: (OCOlc)58843947 Subject: Biomass gasification. Excerpt: . . . The overall process used standard chemical engineering design practice from the chemical industry, to maximize recovery of excess heat and generate the required steam, minimizing natural gas consumption. A proprietary design for the gasifier resolves earlier problems with indirect feed heating, provides the heat of reaction to convert wood ( cellulose and lignin ) to syngas, without having to burn the wood or straw and dilute the syngas with nitrogen. This, plus pressurized operation, results in smaller gas volumes and much smaller equipment. Even though this results in higher unit costs of high-pressure vessels and piping, the overall effect is lower total equipment costs. Another critical design feature is the use of multiple, redundant gas cleaning operations, to protect the downstream systems ( e. g. catalysts ) in the event of gasifier malfunctions. C. Detailed Process Description Based on an abbreviated flow sheet received from Pearson, plus additional verbal information, the Pilot Plant process flow diagram ( Figure V-5 ) was developed to describe the process in more detail, and to confirm the essential validity of the original assumptions. Complete material and energy balances are not however possible here, because many process parameters, such as temperatures and pressures, are proprietary and not cleared for presentation in this document. This process is unique in being substantially more complex in the number of processing steps, than other biomass to syngas and ethanol conversion technologies. This additional complexity is in the following areas: 1. Drying of the rice straw to 15 moisture and the subsequent addition of moisture as super-heated steam to the gasifier reformer. 2. The injection of used oil from the oil scrubber into the gasifier reformer....

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