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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 118 pages. Original publisher: Golden, Colo. : National Renewable Energy Laboratory, 2006 OCLC Number: (OCOLOC)177064777 Subject: Biomass energy -- Economic aspects. Excerpt: . . . Section 1 Process Selection Rationale requirements to the selectivity of the amine solvents. Attempts were also made to choose solvents that minimized net energy requirements. Water-Gas Shift and CO Removal 2 FT synthesis requires a H CO ratio of 2: 1, and methanol synthesis requires the following 2 stoichiometric ratio of H, CO, and CO: 2 (H - CO) (CO CO) 2 2 2 2 The syngas stream exiting the ZnO beds has a H CO ratio of 1. 7 and a stoichiometric ratio of 2 0. 89, which are inadequate for FT or methanol synthesis. A combination of water injection into the tar cracker, followed by CO removal in the amine unit, has been selected to adjust these 2 ratios. In methanol synthesis, H will react preferentially with CO over CO to form methanol. 2 2 This results in a significantly lowered methanol yield, greatly impacting the process efficiency. In FT synthesis, CO acts as a diluent;...



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