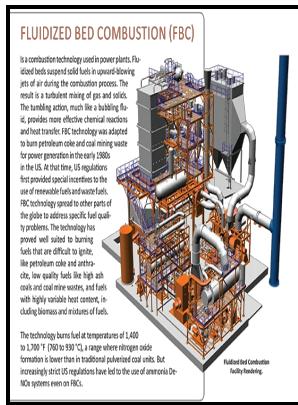


Industrial application of fluidized-bed combustion--phase I

Dept. of Energy, Assistant Secretary for Energy Technology, Division of Fossil Fuel Utilization - Applications of fluidized bed technology in processes other than combustion and gasification



Description: -

- Combustion

FluidizationIndustrial application of fluidized-bed combustion--phase I

- HCP/ET ; 2473-23Industrial application of fluidized-bed combustion--phase I

Notes: Contract no. EX-76-C-01-2473

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Tags: #Industrial #Applications #of #Fluidized #Beds #and #Fluidization #of #Fine #Particles #(Invited #Talk)

Industrial Applications of Fluidized Beds and Fluidization of Fine Particles (Invited Talk)

Release of inorganic trace elements during gasification of wood, straw, and miscanthus. Publication Date: 1978-07-01 Research Org.

Application of fluidized bed combustion to industrial waste treatment

In addition, preliminary selection of a complete boiler water treatment system based on 100 percent plant makeup was begun. Biomass and Bioenergy 2011, 35 , S105-S115.

Application of fluidized bed combustion to industrial waste treatment

Bain, Stefan Czernik, Min Zhang, Michael E. Abstract Final reports on the cold flow modeling activities were completed and issued.

[PDF] COMBUSTION 4 DOCUMENTATION PDF

Decker, John Sheehan, David C.

Applications of fluidized bed technology in processes other than combustion and gasification

A theoretical analysis of bed expansion during operation was made to study bed performance at various operating load conditions. Preliminary design of the demonstration plant continued in the following areas: Design and testing of a proposed fuel feed system, completion of block and flow diagrams; the boiler and auxiliary systems control philosophy; an engineering study on fragmentation of bed drain material; an engineering study on separate storage of bed waste and flyash materials; design of the FBC distribution plate; design of the fuel feed nozzle; completion of limestone tests at Argonne National Laboratory and initiation of the plant cost study. To support the effort on catalyst life determination, a new 300 cc

autoclave was started on an activity maintenance run with CO-rich, unbalanced gas feed.

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A cold flow model test program was completed and issued to ERDA for approval. The use of fluidized bed reactor in wastewater treatment, particularly Advanced Oxidation Processes and biological treatment, represents a unique opportunity for cost-effective treatment of wastewater containing recalcitrant pollutants. Final design of the demonstration plant included issuance of Bid Packages for the I.

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Although the application of fluidized bed reactor in biological wastewater treatment is well established with many large-scale plants in existence, its application in advanced oxidation processes is mostly at laboratory-scale. Construction work on the sub-scale unit is complete and initial shakedown and checkout of equipment has begun. Preliminary design related to the Demonstration Plant has continued at an increased activity level.

Industrial Applications of Fluidized Beds and Fluidization of Fine Particles (Invited Talk)

Bain, Roman Brunecky, Chien-Yuan Lin, Antonella Amore, Hui Wei, Xiaowen Chen, Melvin P.

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