

RESEARCH NOTES

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摘要: A new gas clean-up process called "integrated external metal screen moving granular bed" (IGSMG) for the integrated gasification combined cycle (IGCC) and pressurized fluidized bed combustion (PFBC) was developed on the basis of a external metal candle filter and a granular moving bed. A set of facilities was established and a series of cold model tests were carried out. The dust removal efficiency and the pressure drop of the filter were measured and analyzed. The results show that this process features the advantages of the moving bed for high capacity as well as high inlet dust load and the surface filter for high efficiency. Meanwhile, the granules moving downward cleans the cake on the screen surface, so that the system is operated at steady state.

关键词: 煤清洁; 煤转化; 烟气脱硫; 烟气脱硝; 烟气脱汞

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