Fakultät für Maschinenwesen

Autor(en) des Beitrags: Kunze, C.; Spliethoff, H.

Titel des Beitrags: Modelling of an IGCC plant with carbon capture for 2020

Abstract: Currently several industrial scale IGCC - carbon capture demonstration plants are being planned. Thermodynamic simulations are a useful tool to investigate the optimal plant configuration. In order to demonstrate the potential of the next generation of IGCC with CCS a thermodynamic model was developed using conventional but improved technology. The plant concept was verified and simulated for a generic rich coal and lignite. The simulation showed a net efficiency (LHV) of 38.5

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