

Untersuchung stationärer und dynamischer Vorgänge bei der Teerentstehung in Biomassevergasern und Gasreinigungen mit Hilfe der kontinuierlichen Teeranalyse



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Cuvillier Verlag Mai 2010, 2010. Taschenbuch. Book Condition: Neu. 211x144x17 mm. Neuware - Biomass is an option to use renewable energy for the generation of heat, power and secondary fuels to substitute fossil fuels. The thermochemical gasification is an alternative technology to conventional biomass combustion. Gasification technology can generate power with high efficiency even in small scale power plants. It gives the option to produce gaseous and liquid fuels or basic chemicals from solid biomass. The major obstacle for the application of biomass gasification is the high tar content of the generated gas. A number of different approaches in gasification and gas cleaning systems has been developed in the past. However, tar production in the gasification process and incomplete removal of tars by the gas cleaning systems are still problems preventing the technical and economical breakthrough of the biomass gasification technology. Due to these problems the determination of the tar content is important in terms of research as well as in industrial application. The established tar analysis methodes are based on wet chemical sampling and GC-analysis. They are able to give detailed information about the different tar species existing in the gas. However, realtime process monitoring by measuring tars continuously is not possible up to now. An online tar measurement method has been developed at the Institute of Process Engineering and Power Plant Technology (IVD) of the University of Stuttgart. The method is based on the comparison of the total hydrocarbon content in the hot gas and the corresponding value of the gas with all condensable tars removed. The hydrocarbon levels are measured by a flame ionization detector. The difference in the hydrocarbon levels corresponds with the tar concentration in the producer gas. The measurement system allows a sequential sampling from two sampling points, i.e. the producer gas before and...

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