PREDICTION OF SYNGAS COMPOSITION PRODUCED BY BIOMASS GASIFYING

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ABSTRACT

The paper presents the validation of a Matlab code that simulates the thermochemical process in a downdraft gasifier. Using a gasifying model available in literature was built a Matlab program to predict the syngas composition. Carbon monoxide (CO), carbon dioxide (CO_2), hydrogen (H_2) and methane (CH_4) are the major gases produced from biomass gasification. Equilibrium results were validated with data from literature.

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