

Mathematical Model in Downdraft Gasification





Mathematical Model in Downdraft Gasification **Process**

By Jaojaruek, Kitipong

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | This book describes the development of a mathematical model for the entire length of a downdraft gasifier using thermochemical principles to derive energy and mass conversion equations. Analysis of heat transfer (conduction, convection and radiation) and chemical kinetic technique were applied to predict the temperature profile, feedstock consumption rate (FCR) and reaction equivalence ratio (RER). The model will be useful for designing gasifiers, estimating output gas composition and gas production rate (GPR). Implicit finite difference method was used to solve the mathematical equations involved. | Format: Paperback | Language/Sprache: english | 64 pp.



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