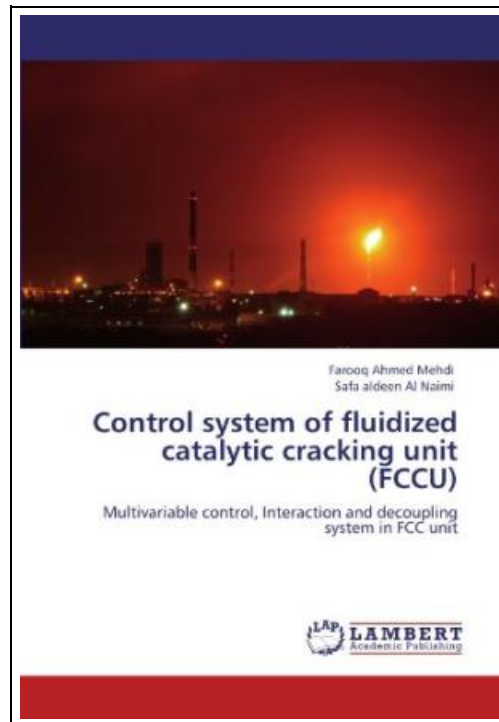


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CONTROL SYSTEM OF FLUIDIZED CATALYTIC CRACKING UNIT (FCCU)



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Multivariable control, Interaction and decoupling system in FCC unit | Control system of fluidized catalytic cracking unit (FCCU) is a good example to study multivariable control, interaction, decoupling system. In this work, basic energy balance around FCC unit is applied. Transfer functions were carried out using state space method. Regenerated catalyst flow rate and air flow rate were chosen to be manipulated variables whereas reactor temperature and regenerator temperature were chosen to be controlled variables. Determining the tight of interaction based on relative gain array (RGA). The Tuning of control parameters for PID feedback was calculated by different two methods; process reaction curve (PRC) and internal model method (IMC). PID Feedback control and Fuzzy logic control were applied as strategies in control system of FCC unit. MATLAB program was used as a tool for simulation and solution of dynamic and control system. | Format: Paperback | Language/Sprache: english | 113 gr | 220x150x4 mm | 72 pp.



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