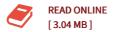# PID output fuzzified water level control in MIMO coupled tank system

By Vishal Vasistha

GRIN Verlag Apr 2014, 2014. Taschenbuch. Book Condition: Neu. 210x148x3 mm. This item is printed on demand - Print on Demand Neuware - Master's Thesis from the year 2013 in the subject Engineering - Mechanical Engineering, grade: Good, , course: Mechatronics, language: English, abstract: The PID controllers are widely used in industry control applications due to their effectiveness and simplicity. This project presents PID controller design for MIMO coupled water tank level control system that is second order system. PID Controller output is fuzzified to control water level in coupled tank system. Simulation has been done in Matlab (Simulink library) with verification of mathematical model of controller. PID controller design and program has been prepared in LabVIEW. At the place of proportional valve, combinations of solenoid valves are used. The NI DAQ card is used for interfacing between hardware and LabVIEW software. Experiment is fully triggered by LabVIEW. Simulated results are compared with experimental results. 40 pp. Englisch.

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