Thoranin Panta 2008: Level Control System Prototype Design and Implementation. Master of Engineering (Electrical Engineering), Major Field: Electrical Engineering, Department of Electrical Engineering. Thesis Advisor: Assistant Professor Peerayot Sanposh, D.Sc. 142 pages.

In manufacturing process, there are several errors due to human, machine, instrumentation, etc. Therefore, arising problems can be solved by using high efficient controller. This thesis is to study control method to solve manufacturing problem by designing liquid level controller. This work includes finding the system model and design control method in order to applied to the real process.

This thesis proposes a method of finding the model of 2 – tank and 3 – tank level process. In order to analyze the relationship among process variables. Then, the PI controller method is present. To the controller ability this research implement the controller on a personal computer and on microcontroller ARM7

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