Abstract

The Process Industries are automated to keeping in tune with the changing requirements. It creates the need of a well defined philosophy to cater to the extent of sophistication. The Scheme projects a mechanism to adapt to the evolving scenario and orient a strategy to accomplish the desired objective. A conical tank system is chosen and a methodology designed to eclipse the specified liquid level in it through appropriate hydraulic arrangements. It augurs the need of a well defined control algorithm to charter a corrective action and seeks the role of a state of the art processor to implement the procedure. The self tuning Fuzzy-PI control algorithm is coded using VHDL and is evaluated through Modlism based simulation to verify its practical viability.
PID controller using VHDL for Transportation application&quoth; Proceedings of International journal of Mathematical models and methods in applied sciences pp. 143-147.
- Wen Chen, Hui-mei Yuan, Yan Wang, &quot;Design and Implementation of Digital Fuzzy-PID Controller Based on FPGA&quoth; Proceedings of ICIEA 2009 pp. 393-397.

Index Terms

Computer Science
Circuits And System
Keywords
Conical tank  Self tuning Fuzzy-PI  VHDL  Z-N.