Thesis Title	Robust H_∞ Controller Design
Student	Mr. Sumet Chaowai
Thesis Advisor	Assoc. Prof. Dr. Jongkol Ngamwiwit
Level of Study	Master of Engineering in Electrical Engineering
Department	Control Engineering, Faculty of Engineering
	King Mongkut's Institute of Technology Ladkrabang
Year	1997

ABSTRACT

This thesis presents the design method and implementation of robust H_∞ controller for linear systems with all parameter uncertainties. The controller is an output feedback controller designed to obtain robust closed-loop stability, disturbance elimination and sensor noise attenuation, and also zero offset when type 0 system has step input. This robust H_∞ controller is applied to control level process in laboratory. The experimental results have shown satisfactory perfomance for the process under norm-bounded parameter uncertainties.