



REVIEW ON MODELING AND CONTROLLER DESIGN IN PNEUMATIC ACTUATOR CONTROL SYSTEM

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Submitted: Sep. 20, 2011 Accepted: Nov. 10, 2011 Published: Dec. 1, 2011

Abstract- Pneumatic actuators are highly nonlinear characteristics and uncertainties make it difficult to achieve high performances. The objective of this paper is to present a brief overview of pneumatic actuators based on modeling and control strategies that has been proposed by various researchers. Before the main discussion, some background information will be presented in a relation to pneumatic actuators. This review concludes with a short summary

and discussion of modeling and control approaches of pneumatic actuators. The implication of this paper is for further improving the performance of existing pneumatic actuators.

Index terms: Pneumatic actuator system, modeling, controller, nonlinearities, uncertainties, position tracking.