

FUZZY LOGIC CONTROLLER FOR THE (ET-RR-1)

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Abstract

A fuzzy logic controller (FLC) for the first Egyptian Research Reactor (ET-RR-1), is constructed.

The controller adjusts the reactor power set point due to the seasonal temperature changes, which affect the average core temperature and initial start up positions of the automatic control rod. Also, it adjusts the setting due to any change in the primary coolant flows.