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IMPLEMENTATION OF AN ADAPTIVE CONTROL ALGORITHM WITH A REFERENCE
MODEL FOR PROGRAMMABLE LOGIC CONTROLLERS

The paper proposes approaches to the software implementation of an adaptive control system with a reference model and parametric adjustment of the regulator on programmable logic controllers (PLC) and with practical evaluation of synthesized systems on combined models, including a simulation model of the controlled plant and a virtual or real controller.

Keywords: state-space equations, adaptive control, reference model, simulation model, PLC, control program.

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