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CONTROL SYSTEM FOR A STRUCTURALLY AND PARAMETRICALLY UNDETERMINED HEAT POWER PLANT WITH DELAY

The paper considers the problem of creating a steam pressure control system in the common steam line of a CHP plant. An analysis of the complexity of ensuring the effective operation of the regulator under the conditions of practical implementation was carried out. Based on the experimental data and the obtained structurally and parametrically uncertain object model with delay, a solution was proposed to create an adaptive control system. The performed simulation showed the effectiveness of the proposed solutions.
Keywords: main regulator, pressure in the common steam line, structurally and parametrically undetermined, delay, adaptive system.

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