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Анализ устойчивости импульсного реактора ИБР-2М при средней мощности 500 кВт

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In this work, the results of the investigation of an experimental and a modeling of the dynamics of the pulsed reactor of periodic operation IBR-2M obtained with the aim of substantiation of reliable and safe operation of the reactor in the course of exploitation are discussed. An IBR-2M model for modeling of transitional processes and for stability analysis at the different modes of operation reactor (self-regulating and automatic regulating modes) is presented. The model is constructed on the basis of a module structure using discrete transfer functions of a block of kinetics, a block of feedback, caused by heating of the reactor, and a block of the automatic regulator with accounting for nonlinear dependence functions. The variation in dynamics of the IBR-2M reactor studied by processing the experimental data obtaining in 2015-2017 at the same average power of 0.5 MW. It is shown that during the period from 2015 by 2017 there is no significant variation in the dynamic of the reactor both in the self-regulating and the automatic regulating.

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