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OBSERVABILITY OF THE CONTINUOUS TECHNOLOGICAL PROCESS OF MULTICOMPONENT RECTIFICATION

The problem of the analysis of local observation of the continuous technological object on the example of a column of multicomponent rectification is considered. A study of the observability of the technological object in vicinity of several stationary states was conducted. It is shown that there is only partial observing. In terms of the number of conditionality of the observing matrix and observability gramian the areas of technological parameters of the object are allocated, at which the maximum number of observed component of the state vector is reached.

Keywords: mass-transfer technological object, observability, observability gramian.

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