

Assessment of the state of the technical system in the presence of parametric perturbations and the absence of information about the input actions

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Abstract

© Published under licence by IOP Publishing Ltd. The paper deals with the problem of assessment of the state of a technical system described by first-order differential equations whose parameters change over time according to a certain law. The conditions of solvability of the synthesis problem in terms of matrix canonization technology are formed. An algorithm is proposed for calculating the coefficients of the state observer of the Luenberger type, providing an asymptotic tendency to zero of the assessment error.

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