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FAILURE PREDICTION OF THE CONTROLLED ENGINEERING SYSTEM

The problem of predicting the moment of engineering system failure under the condition of linear decrease of its working capacity over time based on the measurements(with errors) of this capacity at specific points in time is considered. To solve this problem classical algorithms of one-dimensional linear regression analysis are used.
Keywords: technogenic risk, reliability, parameter, working capacity reserve, prediction, random process, complex engineering system, regression analysis.