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ROBUST METHODS, ALGORITHMS AND MEANS OF DIAGNOSTICS OF STATE OF SEA OIL-GAS CONSTRUCTION

Abstract

Algorithms of improvement of robustness of dispersion estimation, of auto- and mutual correlation functions and coefficients of Fourier series, for application as information signs, which allow in comparison with well-known algorithms to increase the range of trustworthiness of diagnostics of state of sea objects of oil production. For prediction of incipience of damage situations algorithms of interference analysis, which for the series of technical objects provide information about the beginning of invisible changes leading to serious failures are suggested. One of the possible variants is to realize the considered algorithms in hybrid control and diagnostics systems.