

UDC 621.873

*V. S.Lovejkin, Doctor of Technical Sciences, Professor,
J.O.Romasevich, Ph. D.,
National University of Life and Environmental Sciences of Ukraine*

**DYNAMICAL OPTIMISATION OF CRANE
MOVING MECHANISM MOTION MODE**

In article the analysis of rational and optimum ways of elimination of fluctuations of cargo is carried out. Reliability of one of known ways of management by the mechanism of moving of the crane with elimination of fluctuations of cargo which is fixed on a flexible rope is mathematically well-founded. On the basis of the analysis of the given way its revealed lacks and advantages. Ways of elimination of lacks with preservation of advantages of a way of management by the mechanism of moving of the crane are offered. Synthesis optimum by terminal criteria of a way of traffic control of the crane, which close to a known way is executed.

Keywords: *crane movement, rational management, the frequency asynchronous electric drive, terminal functional.*