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ORIGINAL ARTICLE

ANALYSIS OF ROOT CROPS PREPARATION SYSTEM

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Abstract: In recent years, the technical level of agricultural production has increased significantly and new means of mechanization and automation of crop and livestock production are being successfully introduced. At the same time, further progress in this direction is impossible without systematically organized work aimed at the development and implementation of modern automatic control systems for various processes. Works in this area are based primarily on a detailed study of properties of various objects of agricultural production, as mathematical modeling of real processes and devices is the basis for analysis and synthesis of effective automatic control systems. Recently, there has been a transition from the modeling of individual devices to the modeling of complex technological schemes, which is largely due to a significant increase in complexity and dimension of the problems to be solved. Therefore, this approach allows setting and solving optimal control problems not only for separate devices but for entire technological complexes, which in turn provides significant economic effect and application in solving many engineering problems.

***Key words*:** Mechanization, Livestock production, Mathematical modeling, Livestock farms, Root crops.

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