

Annotation

The master's dissertation on the topic "Information-measuring system for monitoring parameters of motion of a crystallizer" consists of 3 chapters, conclusions, literature list and attachments. The explanatory note contains 100 pages, 20 figures, 23 tables, a literature list with 18 titles and 2 attachments.

The purpose of the study in the master's thesis is to review existing systems for controlling the parameters of the motion of the crystallizer of continuous casting machine, studying existing methods of processing information in such systems, developing software that performs similar functions, to explore the possibility of integrating modern information technologies in such systems.

The object of research is the control system of parameters of motion of the crystallizer continuous casting machine.

The subject of research is the methods of processing and analysis of information collected by the control system parameters of the motion of the crystallizer continuous casting machine.

The scientific novelty of the results obtained in the master's thesis is to systematize the methods of measuring accelerations, velocities and displacements used in the control systems of parameters of motion of the crystallizer continuous casting machine, development of a model of the control system using machine learning technology, to study of the feasibility of using databases for the storage of processed information, research the influence of the composite signals read from the crystallizer continuous casting machine on the output characteristic of the measuring system.

Key words: computer-integrated system, accelerometer, crystallizer oscillation mechanism, machine learning, databases.