ABSTRACT

The thesis is presented in 75 pages. It contains 2 appendixes and bibliography of 16 references. 19 images and 1 table are given in the thesis.

Software complex for transport move on the crosses modeling and regulation process optimization development is the goal of this work. During work existing systems for optimal root building during transport move on the crosses modeling and there functional abilities were considered. Transport system mathematical model, algorithms of optimal root and maximum flow search were considered in the work.

Deikstra's and Ford-Falkerson's algorithms were chosen for optimal root and maximum flow problems solution. Uniform distribution law was used for transport flows modeling.

Information system for transport move on the crosses for regular process optimization modeling was designed and implemented.

Key words: transport network, optimal root, maximum flow, algorithms on graphs