**Belarusian State University   
Faculty of Mechanics and Mathematics  
Department of nonlinear analysis and analysis of the economy**

**Annotation to the diploma work  
"** **Theory of the optimum and its application in the economy "**

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**Abstract**

of graduation work "Theory of the optimum and its application in the economy"

Course work includes:

- 35 pages

- 3 pictures (figure)

- 1 application

- 4 sources used.

Keywords: possible states, optimum of Pareto, optimum of distribution, optimum of production, equilibrium of a market, fumble procedure.

In this course work the concepts of optimum of Pareto distribution and manufacturing are studied.

The aims of the course work are

- the determination of the conditions for the optimum of a market equilibrium;

- the determination of the conditions for the market equilibrium of the optimum.

The following results were obtained:

1) The theorem, describing the necessary and sufficient terms for optimum conditions of a market balance have been formulated;

2) the geometric interpretations of Economics optimum conditions have been represented;

3) The particular economic model on the basis of which the theory of the optimum is built has been set up.

The course work is practical in nature, it partly affects the practical possibilities of the obtained results. They can be used in further studies procedure of discovering.

All of the theses of course work have been proved according to the mathematics rules. The validity of the formulated results are based on strict mathematical proofs of the theorems obtained from the analysis of the constructed economic model.

The course work has been made by the author himself.