М.Г. Харатокова

THEMES FOR DISCUSSION

Учебно-методическое пособие по английскому языку для самостоятельной работы аспирантов для всех направлений подготовки научно-педагогических кадров в аспирантуре. Уровень основной образовательной программы: подготовка кадров высшей квалификации

> Черкесск 2015

МИНИСТЕРСТВО ОБРАЗОР

~ОССИЙСКОЙ ФЕДЕРАЦИИ

ФЕДЕРАЛЬНОЕ ГОСУДАН . НОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ПОСУДАН . НОЕ ОБРАЗОВАТЕЛЬНОЕ

СЕВЕРО-КАВКАЗСКАЯ ГОСУДАРСТВЕННАЯ ГУМАНИТАРНО-ТЕХНОЛОГИЧЕСКАЯ АКАДЕМИЯ

М.Г. Харатокова

THEMES FOR DISCUSSION

Учебно-методическое пособие по английскому языку для самостоятельной работы аспирантов для всех направлений подготовки научно-педагогических кадров в аспирантуре. Уровень основной образовательной программы: подготовка кадров высшей квалификации

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Х20 Харатокова, М.Г. Themes for discussion: Учебно-методическое пособие по английскому языку для самостоятельной работы аспирантов для всех направлений подготовки научно-педагогических кадров в аспирантуре. Уровень основной образовательной программы: подготовка кадров высшей квалификации. / Харатокова М.Г. – Черкесск: БИЦ СевКавГГТА, 2015. – 20 с.

Учебно-методическое пособие включает в себя научные темы для обсуждения на вступительных и кандидатских экзаменах по английскому языку. Предназначено творчески мыслящим студентам, молодым исследователям, аспирантам.

Основной целью данного учебно-методического пособия является формирование умения самостоятельного чтения и понимания литературы научного характера, а также говорения на английском языке по различной научной тематике.

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My future theme of scientific research, its urgency, novelty

Theme of my future scientific research – mathematical modeling, an estimation and a choice of investment projects in the conditions of risk.

One of the basic problems of the modern theory and investment practice is the problem of acceptance of effective decisions in the conditions of uncertainty. The present period of development of the Russian economy is characterized by increase in quantity of factors of uncertainty at which investment activity is carried out. Primary factors of growth of uncertainty are: globalization of financial operations and integration of national economies, growth of number of tools traded in the markets, reduction of time of financial transactions at the expense of use of electronic transmission media of the information. The given list of circumstances generally isn't considered within the limits of assumptions of traditional approaches, and in modern practice of investment arises essentially more statements of problems, than it is offered decisions in the theory of the investment analysis.

Besides, at the decision of problems of a choice of projects the simplified approaches which are not considering features of preferences of the person, making the decision, as a rule, are used.

The specified circumstances define an urgency of a problem of development of mathematical models and methods of an estimation and a choice of the investment projects considering многопериодные aspects of realization in the conditions of stochastic uncertainty, not critical assumptions to infringement of classical approaches about distributions of quantitative criteria of an estimation of investment projects.

Also, increase of uncertainty of financial results of investments on securities markets and the enterprises of real sector raises some doubts concerning adequacy of the results received with use of classical methods of an estimation and a choice of investment projects. Therefore development of mathematical models for acceptance of investment decisions in the conditions of the limited market of the capital and various types of the relation of the person of the making decision to risk is so important, and also at uncertainty of likelihood distributions of outcomes of the investment project.

If to speak about the practical importance and scientific novelty set of mathematical models, methods and algorithms which will be described in my future scientific work will present the uniform approach to an estimation and a choice various on structure and properties of investment projects.

Also I develop a method of an estimation of dynamics of capitalization of investment projects.

Now problems of the analysis and a choice of effective decisions in the conditions of uncertainty by optimization of systems of logistics and, including, with reference to problems of management of chains of deliveries are all-important. Among them there are also problems of optimization of control systems of stocks. Existing statements of problems and model of optimization of such systems don't allow the manager to consider in the field of logistics powerful enough attributes of the system analysis caused, first, by necessity of a finding of the best decisions in the conditions of uncertainty, secondly, - necessity of the account of time cost of money. To provide noted features at a choice of an effective variant of the organization of work of system of logistics, the manager for today should face new statements of problems of optimization of such systems and according to new approaches to their decision.

In connection with the given situation during research the aim to analyse and apply modern approaches and methods for decision-making in the conditions of uncertainty in the field of logistics was pursued, and also to find the optimum decision.

For object in view achievement following problems have been put:

 $\hfill\square$ Substantial statement of a problem for a corresponding chain of deliveries;

□ Model construction in a format of studied system or a logistics subsystem;

□ Modeling of system and a finding of the best decision;

 $\hfill\square$ The account of "external" conditions (as speak, «nature conditions») in a decision format;

 \Box Decision realization.

Object of research is modeling of optimum system of transportations taking into account risk, a subject accordingly logistical model of optimization of costs

Methods of research of model of the theory of mass service, the theory of games, the system analysis.

My degree project

The theme of my thesis was following – modeling, an estimation and a choice of investment projects in the conditions of risk.

The thesis purpose was the analysis and application of mathematical models, methods and algorithms of acceptance of investment decisions, namely an estimation and a choice of investment projects, in the conditions of the limited market of the capital, various types of the relation of the person making the decision to risk and stochastic uncertainty.

In the thesis:

1) the analysis of current results on a problematics of an estimation of investment projects and the risk account Has been carried out. The generalized

statement of a problem of a choice многопериодных investment projects in the conditions of risk is generated and the research structure is defined.

2) statements of problems of a choice of investment projects in the conditions of uncertainty of likelihood outcomes are Mathematically concretized at aspiration of the person making the decision to the maximum residual cost or the provided income taking into account dynamics of capitalization.

3) mechanisms of a choice of projects on the basis of preferences of the investor, namely посторенние двухкритериальных functions of utility and methods of an estimation of investment projects Are resulted. The method of an estimation of dynamics of capitalization of investment projects is developed, and also the algorithm of an estimation of the provided income is interpreted.

4) generation of test investment projects by means of the modified version of the generator of Park-millera with use of a method of a reshuffle of Bajesa-Djurhema Is spent.

5) It is spent approbations of the stated methods and algorithms by means of computing experiment

The received results define set of mathematical models, methods and the algorithms describing the uniform approach to an estimation and a choice various on structure and properties of investment projects.

For carrying out of computing experiment I used financial plans of 3 real projects: project A: «processing of a dangerous waste – the fulfilled oils», project B: «manufacture of crystal iodine and iodincontaining preparations from passing sheeted oil waters » and project C« building of solodovni ».

The given work represents result of research of problems of a choice of effective decisions in the conditions of uncertainty by optimization of systems of logistics and, including, with reference to problems of management of chains. The basic idea of research consists in finding an optimum solution of a problem of this choice.

For object in view achievement following problems have been put:

1) substantial statement of a problem for a corresponding chain of deliveries; 2) model construction in a format of studied system or a logistics subsystem; 3) modeling of system and a finding of the best decision; 4) the account of "external" conditions (as speak, «nature conditions») in a decision format; 5) decision realization.

As toolkit criteria of the theory of games (for definition of optimum strategy, as classical so, and modified) the system analysis, the theory of storekeeping have been used,

As a result following results have been received:

1) Have been analysed the basic problems of modern logistics, one of the above-stated problems, namely a problem of minimization of costs also have been concretized, models of systems of transportations and management of chains of deliveries also are classified;

2) It is constructed the mathematical model necessary for a concrete definition of area considered in given work, optimization of control systems by

chains of deliveries, on the basis of this model is constructed a matrix полезностей, further used as the initial data for application of optimizing criteria;

3) the Model has passed check both classical criteria of the theory of games, and the modern in other words modified criteria of optimization of systems in the conditions of uncertainty, as a result confidently enough it is possible to tell that the optimum decision in the given conditions is the diversification of deliveries between suppliers;

4) All above-stated methods have been applied practically, results of this application can be observed in the third chapter of the given work as tables.

In the conclusion it would be desirable to add that in the conditions of high uncertainty of market economy it is especially important to be able to use the specified

Scientific work - the purposes, problems for me personally, development of branch of a science

The specified circumstances define an urgency of a problem of development of mathematical models and methods of an estimation and a choice of the investment projects considering многопериодные aspects of realization in the conditions of stochastic uncertainty, not critical assumptions to infringement of classical approaches about distributions of quantitative criteria of an estimation of investment projects. Theme of my future scientific research – mathematical modeling, an estimation and a choice of investment projects in the conditions of risk.

The work purpose is the analysis and application and completion of mathematical models, methods and algorithms of acceptance of investment decisions, namely an estimation and a choice of investment projects, in the conditions of the limited market of the capital, various types of the relation of the person making the decision to risk and stochastic uncertainty.

And also continuation of development of a theme of my degree project, namely complication of imitating model, in particular sets of likelihood models of parameters of the investment environment.

Speaking about developments of branch of a science, it would be desirable to note, increase of uncertainty of financial results of investments on securities markets and the enterprises of real sector raises some doubts concerning adequacy of the results received with use of classical methods of an estimation and a choice of investment projects. Therefore development of mathematical models, methods and algorithms for acceptance of investment decisions in the conditions of the limited market of the capital and various types of the relation of the person of the making decision to risk is so important, and also at uncertainty of likelihood distributions of outcomes of the investment project. The present period of development of economy is characterized by increase in quantity of factors of uncertainty at which investment activity is carried out. Primary factors of growth of uncertainty are: globalization of financial operations and integration of national economies, growth of number of tools traded in the markets, reduction of time of financial transactions at the expense of use of electronic transmission media of the information. The given list of circumstances generally isn't considered within the limits of assumptions of traditional approaches, and in modern practice of investment arises essentially more statements of problems, than it is offered decisions in the theory of the investment analysis.

Besides, at the decision of problems of a choice of projects the simplified approaches which are not considering features of preferences of the person, making the decision, as a rule, are used.

My abstract on a speciality

The theme of my abstract on a speciality was following – mathematical modeling, an estimation and a choice of investment projects in the conditions of risk.

The work purpose was the analysis and application of mathematical models, methods and algorithms of acceptance of investment decisions, namely an estimation and a choice of investment projects, in the conditions of the limited market of the capital, various types of the relation of the person making the decision to risk and stochastic uncertainty.

So, in the given work:

1) the generalized statement of a problem of a choice многопериодных investment projects in the conditions of risk Has been generated and the research structure is defined.

2) statements of problems of a choice of investment projects are Mathematically concretized at aspiration of the person making the decision to the maximum residual cost or the provided income taking into account dynamics of capitalization.

3) mechanisms of a choice of projects on the basis of preferences of the investor and methods of an estimation of investment projects Are resulted. The method of an estimation of dynamics of capitalization of investment projects is developed.

4) It is spent generation of test investment projects, is spent approbations of the stated methods and algorithms by means of computing experiment.

Thus, the listed results define set of mathematical models, methods and the algorithms describing the uniform approach to an estimation and a choice various on structure and properties of investment projects.

Increase of uncertainty of financial results of investments on securities markets and the enterprises of real sector raises some doubts concerning adequacy of the results received with use of classical methods of an estimation and a choice of investment projects. Therefore development of mathematical models, methods and algorithms for acceptance of investment decisions in the conditions of the limited market of the capital and various types of the relation of the person of the making decision to risk is so important, and also at uncertainty of likelihood distributions of outcomes of the investment project.

What I read as the economist, what for

I will tell about books which have helped me to write not only the thesis, but also to understand the work and the concept logistics, and also with that as we can diversify the risks connected by transportations, both economic and ecological.

So, the first book is Donald Dzh. Bauersox, David Dzh. Closs Logistics: the integrated chain of deliveries. This book is written by economists who directly were engaged in training and consultation of experts of the largest multinational companies. In it representations of authors about the future of commercial logistics and about its role in modern competitive struggle are stated.

The following book is Brodetsky G.L.Modelirovanie of logistical systems. Optimum decisions in the conditions of risk. In it methods, receptions and principles of the classical approach to management of risks with reference to the analysis and optimization of logistical processes for concrete links in chains of deliveries are considered. They allow to solve a wide range of problems taking into account specificity of available risks. The author illustrates a theoretical material set of various real examples from area of management of risks in logistics sphere that considerably facilitates its perception and does accessible to application in practice.

The following Dubrov A.M., Lagosha B. A, Khrustalyov E.JU.modeling of brave situations in economy and business: Studies. The grant / Under the editorship of B.A.Lagoshi.

In this book approaches to the account of factors of uncertainty and risk in economic practice, and also the mathematical models used for these purposes are considered. The situations arising in the conditions of uncertainty and a lack of the information at acceptance of administrative decisions are analyzed.

Stok D.R., Lambert D.M. strategic management of logistics is a textbook in it the basic aspects of activity of experts-logistov are collected, tools not only strategic planning, but also daily operative practice are offered. The system of the organization of modern logistical service in the company, its strategic role in management of chains of deliveries is described. Influence of logistics on efficiency of business is analyzed and shown, how by means of logistics it is possible to raise this efficiency.

Shrajbfeder J. Efficient control stocks

John Shrajbfeder, president Effective Inventory Management, Inc., asserts that efficient control stocks allows the organization to satisfy and exceed expectations of buyers and offers a technique of creation of the program of the storekeeping, allowing to achieve high profitability of investments in warehouse stocks.

Therefore in the book it answers all most popular questions of logistics, namely: storekeeping demands not only good hardware and the software and necessary, but also the corresponding corporate policy. How to reduce working costs? At what

lume of stocks the profit grows? Whether assortment expansion will affect

profitability of the company? How to develop the program of storekeeping which will allow to maximize net profit?

Reading of the professional literature is necessary, both for increase of level of knowledge, and for a writing of scientific articles, reports to conferences.

To begin with it would be desirable to note the basic literature on my speciality, the most important and useful publications:

1. Byvshev V. A. Introduction into econometry. The Manual which I used throughout all training not only on эконометрике, but also at a writing of various works on other disciplines.

2. Venttsel E.S. Research of operations. Problems, principles, methodology, 1988.

3. Kiselyov V.V. Theory of optimum control.

4. Labsker L.G., Babeshko L.O. Game methods in management of economy and business, I think it will be interesting and it is useful for any economist who is engaged for example, management of chains of logistical deliveries.

5. Labsker L.G., Babeshko L.O. Theory of mass service in economic sphere,

6. Fedoseyev. Economic-mathematical methods and models in marketing, 1996. Some time I work in marketing department also has familiarized with this book where has learned many methods which can be put into practice.

If to speak about concrete area in which I was engaged at a writing of the degree project and would like to continue, studying in postgraduate study the most known and significant publications in the theory of the investment analysis and mathematical modeling is the following:

7) Kini R.L, Rajfa H. Taking decission at many criteria: preferences and replacements. The book which was published in 1981 till now keeps the urgency and is very interesting and useful. On its basis many authors have written the scientific works and articles.

8) Krushvits of L. Investment calculations, 2001.

9) Larichev O. I. The theory and decision-making methods, 2002. The textbook of the well-known author, the academician of the Russian Academy of Sciences. The textbook is useful to all experts who are engaged in direct work with clients, customers, as for example, in case of investment projects the persons, making decisions. Every possible ways of revealing of preferences of the decision-maker in detail undersign for the book, by means of mathematical modeling.

10) Mihno V. N, Katulev A.N., Vilenchik of h.p.

Modern synthesis of criteria in decision-making problems. The book mentions questions similar to the previous textbook.

11) Also, useful at mathematical modeling of investments are such books as, Nefedov A.N., Katulaev A.N. Introduction in mathematical bases of modeling of economic processes, Shiryaev A.G. The Basis of stochastic financial mathematics, Shiryaev V.I. Models of the financial markets: optimum portfolios, management of the finance and risks, Adams A.T., Booth P.M., Bowie D.C., Freeth D.S. Investment Mathematics, 2003 and Sharp U.F., Alexander â., Bejli of J. V.Investitsii.

It would be desirable to note some more editions which will be in my opinion interesting to any economist:

13) Fisher I. Buying force of money.

18) Allen S.L. Financial Risk Management: A Practitioner's Guide to Managing Market and Credit Risk. – John Wiley&Sons, 2003.

19) Eisenfuhr F., Weber M. Rationales Entscheiden. – Springer, 1999.

20) Markowitz H.M. Portfolio selection//Journal of Finance 7 (1), March 1952.

21) Merton R. Continuous-Time Finance. – Cambridge: Blackwell, 1992.

As to periodicals I read magazine «Financial management», in it as a rule,

questions of the corporate finance and the financial market, and also the financial analysis and planning are discussed. And at last, a portal «the Financial analytics: problems and decisions», in it is analyzed many actual problems, real examples and ways of the decision of the developed problems are resulted.

My working day (1)

To begin with it would be desirable to tell about the company in which I work, and after I will try to describe everything, than my working day is usually occupied.

I work in the company Dupont, DuPont (E.I. du Pont de Nemours and Company) is the American chemical company, one of the world's largest. Enters into list Fortune 1000 following the results of 2008 (81 place). The company is the inventor of set of unique polymeric and other materials among which a neoprene, nylon, teflon, cevlar, a Mylar, etc. Dupont works in Russia since 1974, from the date of opening of the Moscow representation. Initially having concentrated, mainly, on agriculture, Dupont Russia purposefully puts into practice strategy of active development of industrial branches and an establishment with consumers of such relations at which representatives of key industries consider "Dupont" as the preferable partner.

I work in department of work with clients, logistics division, in my duties. The whole day long I advise clients concerning material presence (in my case it is artificial stone Corian and Montelli, applied at design a decor of interiors and exteriors) which is in a company warehouse, or in transit from Europe.

In the morning and in the evening I coordinate process of delivery and release of shipping documents (the invoice and $TOP\Gamma$ -12) for shipment of a material to the clients who are in Moscow and MO from a warehouse of the company.

Also I am engaged in drawing up of contracts of delivery with clients, studying of the basic points of the contract, discussion of the given points with the client, the coordination of the report of disagreements with legal department.

And after I send inquiry about an institution of these clients in global system of clients of the company Dupont.

That's all duties by which my working day is occupied.

My working day (2)

I would like to describe the working day on an example the of an industrial practice which I took place in department of filtering materials of Joint-Stock Company «3M Russia». It is the innovative American company.

My working day began in 9 mornings. First of all I checked the corporate mail through which almost all communications with employees and clients were carried out. Then, depending on inquiries of the client or the help in selection of articles, their localization and activation, the order of advertizing samples and their sending to clients or selection of grocery specifications for customs on demand logistics business. Average statisticaly, on time it occupied from 2 till 3 o'clock.

Then, short daily the review of the market of filtering materials, the analysis of the general and local profitableness necessary for management of the prices and production assortment, calculation and an establishment of the prices, and also special price plans. As a rule, for this work at me 1 hour left.

Once a week – studying of dynamics of sales, the analysis of sales to distributors, revealing among them leaders. Definition by results of the analysis of the sizes of a discount. The analysis of forecasts of sales from distributors, acceptance on its basis of the decision on deactivation of articles from a grocery portfolio and creation of warehouse articles.

This work occupies from 2 till 4 o'clock the working day.

And at last, daily preparation for the marketing forums of the company spent every month on various themes, such as: «Making The Most of Your Channel

Development Funds», «Taking Marketing at 3M from Good to Great», «3M 2011 Sales Connections National Sales Meeting Recap», «The Critical Role of Marketing in the Challenger Sales Rep Model» and so on. And also preparation of reports on sales for a monthly forum of department I&TB on various a theme, such as "planning", «results of quarter».

Also once month the meeting of distributors of department was spent, my work at preparation for a meeting consisted in presentation of the basic indicators of department current month, the report on the done work and plans for the next month.

The end of the working day at 6 o'clock in the evening, but as a rule I was late on work on half an hour or 1 hour.

My research work

My name is Olga Ivanova. I am a full-time post-graduate student of the Russian literature department at Moscow State University. I was born in the city of Moscow twenty five years ago. I left school number seventy six and entered the Philological Department of our University. On graduating from the University I had been working at school as a teacher of Russian literature for three years. I have always been interested in research work. When a student I took part in the work of the students in research work. Last year I found an interesting topic and made up my mind to enter the post-graduate courses. I passed my entrance exams with excellent marks and became a post-graduate student. The topic of my thesis is «The genre of familiar letter in Puchkin epoch». That topic was approved by the scientific councel of the Humanitarian Institute. My superviser is professor Orlov,

Doctor of literature. During the first year I have done much. I have written two learned articles, which were published in the collection of works of postgraduate students, taken part in four scientific conferences. Also I have collected bibliography. I attended classes in philosophy and English. I have already passed my candidate exam in philosophy with good mark.

The literature review on a speciality (the most known publications)

The most known publications connected with mathematical modeling of economic processes are:

1. Akulich I.L. Mathematical programming in examples and problems, 1986.

2. Byvshev V.A. Introduction into econometric. The Manual, 1999.

3. Ventsel E.S. Research of operations. Problems, principles, methodology, 1988.

4. Venttsel E.S., Ovcharov L.A. Theory of casual processes and its engineering appendices, 1991.

5. Gejn K. Sarson T. The system structural analysis: means and methods, 1992.

6. Research of operations in economy. N.SH.Kremer, B.A.Putko, I.M.Trishin, M.N.Friedman; Under the editorship of N.SH.Kremer, 1997.

7. Kiselyov V.V. Theory of optimum control, 2004.

8. Kobelev N.B. Practice of application of economic-mathematical methods and models, 2000.

9. Kolmogorov A.N., Fomin S.V. Element of the theory of functions and the functional analysis, 1972.

10. The Konjuhovsky Item of Century Mathematical methods of research of operations in economy, 2000.

11. Krass M. S, Chuprynov B.P. Fundamentals of mathematics and its appendix in economic education, 2002.

12. Labsker L.G., Babeshko L.O. Game methods in management of economy and business, 2001.

13. Labsker L.G., Babeshko L.O. Theor of mass service in economic sphere, 1998.

14. Labsker L.G., Mihajlova V. P, Seryogin R. A. Mathematical modeling of financial and economic situations with computer application (on a basis марковских casual processes), 1998.

15. Larichev O. I, Pavlova L. I, Osipov E. Polykriterial problems with designed variants of decisions at the limited resources//Problems and methods of acceptance of unique and repeating decisions, 1990.

16. Lebedev V. I. Mathematical modeling of social and economic processes, 1997.

17. Posashkov S.A. Stability of decisions of the differential equations, 2001.

18. Falin G. I. The mathematical analysis of risks in insurance, 1994.

19. Fedoseyev. Economic-mathematical methods and models in marketing, 1996.

20. Fomin. The Item Mathematical methods and models, 2001.

21. Economic computer science: the Textbook / Under the editorship of V.P.Kosarev and L.V.Eremina, 2001.

If to speak about concrete area in which I was engaged at a writing of the degree project and would like to continue, studying in postgraduate study the most known and significant publications in the theory of the investment analysis and mathematical modeling is the following:

1) Kini R. L, Rajfa H. To make a decision at many criteria: preferences and replacements. Decision-making at many criteria: preferences and replacements. The book which was published in 1981 till now keeps the urgency and is very interesting and useful. On its basis many authors have written the scientific works and articles.

2) Krushvits of L. Investment calculations.

3) Larichev O. I. The theory and decision-making methods. The textbook of the well-known author, the academician of the Russian Academy of Sciences. The

textbook is useful to all experts who are engaged in direct work with clients, customers, as for example, in case of investment projects the persons, making decisions. Every possible ways of revealing of preferences of the decision-maker in detail undersign for the book, by means of mathematical modeling.

4) Mihno V. N, Katulev A.N., Vilenchik of h.p. Modern synthesis of criteria in decision-making problems.

5) Nefedov A.N., Katulaev A.N.introduction in mathematical bases of modeling of economic processes.

6) Sharp U.F., Alexander â., Bejli of J. V.Investitsii.

10) Shiryaev A.G. of the Basis of stochastic financial mathematics.

11) Shiryaev V. I. Models of the financial markets: optimum portfolios, management of the finance and risks.

12) Fisher I.Pokupatelnaja sila of money.

13) Adams A.T., Booth P.M., Bowie D.C., Freeth D.S. Investment Mathematics – John Wiley&Sons, 2003.

14) Allen S.L. Financial Risk Management: A Practitioner's Guide to Managing Market and Credit Risk. – John Wiley&Sons, 2003.

15) Eisenfuhr F., Weber M. Rationales Entscheiden. – Springer, 1999.

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THEMES FOR DISCUSSION

Учебно-методическое пособие по английскому языку для самостоятельной работы аспирантов для всех направлений подготовки научно-педагогических кадров в аспирантуре. Уровень основной образовательной программы: подготовка кадров высшей квалификации

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