UDC 657.372.3



**Evgeniy Filatov** 

PhD (Economics), Associate Professor, Department of Economic Theory and Finance, National Research Irkutsk State Technical University, Russia 83 Lermontov Str., Irkutsk, 664074, Russia johnru3000@rambler.ru

# OPTIMAL METHODS OF DEPRECIATION FORMING

**Abstract.** Depreciation applying is governed by the rate of turnover of fixed assets. It intensifies the renewal process; helps implement technical and production policy of the company. Depreciation policy gives effect to the certain levers which affect the economy and the financial results of the individual enterprises. Long-term planning of activity at all and the financial one in particular is one of the cornerstones of modern

management. The author's method usage to form depreciative policy allows cutting uncertainty while making decisions connected with commercial organizations' development. The article is devoted to finding optimal strategies for depreciation calculation by comparative analysis of the straight-line and proposed by the author methods. It presents a new method of depreciation policy variation calculations based on handling of the introduced by the author coefficients (linear, step and correction coefficients), making it possible for an economic entity to reasonably form and distribute amortization fund in accordance with the market situation.

**Keywords:** depreciation policy; depreciation; investments; straight-line method; coefficients. **JEL Classification:** M21, M41

#### Е. А. Филатов

кандидат экономических наук, доцент кафедры экономической теории и финансов,

Национальный исследовательский Иркутский государственный технический университет, Россия ОПТИМАЛЬНЫЕ СПОСОБЫ ФОРМИРОВАНИЯ

## АМОРТИЗАЦИОННЫХ ОТЧИСЛЕНИЙ

**Аннотация.** С помощью амортизации регулируется скорость оборота основных средств, интенсифицируется процесс их обновления, реализуется техническая и производственная политика на предприятии. Амортизационная политика приводит в действие определенные рычаги, которые влияют на экономику страны и финансовые результаты работы отдельного предприятия.

Долгосрочное планирование деятельности вообще и финансовой деятельности в частности является одним из краеугольных камней современного менеджмента. Использование авторского инструментария по формированию амортизационной политики позволит снизить неопределенность при принятии инвестиционных решений, связанных с развитием коммерческих организаций. Статья посвящена определению оптимальных способов начисления амортизации. Посредством сравнительного анализа линейного и авторского методов предлагается методика вариационных расчетов формирования амортизационной политики, в основе которой лежит управление коэффициентами (линейными, шаговыми и корректировочными) и которая дает возможность хозяйствующему субъекту разумно формировать и распределять амортизационный фонд исходя из рыночной ситуации.

Ключевые слова: амортизационная политика; амортизационные отчисления; инвестиционные вложения; линейный метод; коэффициенты.

#### Є. О. Філатов

кандидат економічних наук, доцент кафедри економічної теорії та фінансів,

Національний дослідницький Іркутський державний технічний університет, Росія

#### ОПТИМАЛЬНІ СПОСОБИ ФОРМУВАННЯ АМОРТИЗАЦІЙНИХ ВІДРАХУВАНЬ

Анотація. Довгострокове планування діяльності загалом і фінансової діяльності зокрема є одним із наріжних каменів сучасного менеджменту. Використання авторського інструментарію щодо формування амортизаційної політики дозволить знизити невизначеність при прийнятті інвестиційних рішень, пов'язаних із розвитком комерційних організацій. Стаття присвячена визначенню оптимальних способів нарахування амортизації. За допомогою порівняльного аналізу лінійного та авторського методів пропонується методика варіаційних розрахунків формування амортизаційної політики, в основу якої покладено управління коефіцієнтами (лінійними, кроковими та коректувальними), що дозволяє суб'єкту господарювання розумно формувати й розподіляти амортизаційний фонд з огляду на ринкову ситуацію. Ключові слова: амортизаційна політика; амортизаційні відрахування; інвестиційні вкладення; лінійний метод; коефіцієнти.

**Introduction.** The amortization system is an important economic tool which guarantees the minimum amount of necessary own investment funds for enterprises to operate. It is in an intimate relation with the tax system, pricing, and, consequently, with the interests of both the state and the society.

At the enterprise level, as a result of improving the efficiency of depreciation policy, active part of fixed assets is updated, which increases the technical level of production. All this creates conditions for increasing productivity and production, reduce costs and maximize profits.

**Brief Literature Review.** The development of an economically efficient depreciation policy is a very complex and multifaceted problem. It is necessary to take into account the peculiarities of every single stage of the economic development in order to find the most appropriate and optimal variant of its solution (Aaron, 1976) [1].

The depreciation policy mainly consists in the choice of the transfer rate of the value of fixed assets or intangible assets to the cost of products or services and at the same time in the choice of the rate of accumulation of amortization funds for their replacement.

One of the most important sources of financing for investment both in size and accessibility for investors is depreciation. In practice there exist various means to write the cost of fixed and intangible assets off by way of depreciation (Auerbach, 1983) [2]. Since the accrued amount of amortization (depreciation) is one of the elements of the cost structure and it ultimately affects the outcome of the financial and economic activities, the choice of method of depreciation is one of the crucial elements of the accounting policy of an organization (Cohen, 1975) [3].

The capital as a factor of production represents the production equipment funds. In order for the capital to make a profit in the production process it is necessary to constantly maintain it in a cost-effective initial state. It is inevitable depreciation should not affect the commercial activities of the enterprise (Cohen, 1980) [4].

With the purpose to avoid losses and maintain the profitability of the capital assets the organization makes provision for depreciation consisting of the money funds intended to compensate the capital depreciation (Hulten & Wykoff, 1996) [5]. The provision for depreciation on the full capital recovery is made out of the income earned by the sales of goods produced using capital funds. And, actually, the depreciation is included in the cost of the goods produced by these capital funds and it represents the transfer of the cost of gradually depreciating fixed assets to the cost of the manufactured products. Therefore, the depreciation is a process of reproduction of the capital; the faster is its restoration, the more efficient is the business activity of the organization (Hall & Jorgenson, 1967) [6]. This is especially true in view of the rapid scientific and technological progress, the increase in the research intensity of production and the reduction of the life cycle of most capital assets.

Traditional depreciation methods applied in practice have several drawbacks (Doms, 1996) [7]. For instance, the direct method or straight-line method (Feldstein, 1982) [8] is appropriate for those types of assets the depreciation rate for which is determined in terms of useful life or for which it is not possible to functionally relate the process of the value of assets transfer to the production through depreciation with the intensity of their use.

The disadvantages of the straight-line depreciation also include:

a priori fixed unchanging value of the depreciation period;
 insufficiently stimulating effect on improving the efficiency

of the fixed capital utilization;

 possibility of under-depreciation due to an insufficient consideration of the effect of moral depreciation;

 insufficient consideration of the fixed capital internal utilization conditions.

The method of calculation of depreciation proportionally to the volume of the work performed (production method) is based on the fact that the depreciation is only a result of the exploitation, and time intervals play no role in the process of its calculation. Hence, this method should be applied in the case when the return of the asset during its useful life can be determined with a sufficient accuracy. Furthermore, this method does not give a clear idea of the trends of depreciation changes because of sudden fluctuations of the depreciation value from year to year.

When using the method of the reduced (declining) residue (declining-balance method), the initial value of the asset will never be written off. The declining-balance method is based on the same principle as the sum-of-the-years of useful life method of depreciation - digits method. These methods allow writing off the cost of the maximum amortization already in the first years of the asset operation. When using the sum-of-the-years method, one may apply the inverse cumulative number and slow the depreciation cost down in the first years of the asset operation. However, unlike the methods we propose, this method gives sharper fluctuations of the depreciation value from year to year (Fullerton Don & Gordon, 1983) [9].

Data & Methods. The methods we introduce below (Filatov, 2013) [10] resolve all the problems typical for traditional depreciation.

Our methods are based on the fact that the annual amount of depreciation is determined on the basis of the initial or current (reconstructive, in the case of revaluation) cost and the rate of depreciation calculated on the basis of the useful life of an asset, as well as of the ratio of the linear, step and correction coefficients.

Next, we test our methods for calculation of depreciation under the initial value of an asset C equal to 95 200 thousand dollars.

In the calculations n stands for the useful life of the fixed asset. For Ex. 1 let n be equal to 13 years (any odd number of years) (Tables 1-4). For Ex. 2 let n be equal to 12 years (any even number of years) (Tables 5-8).

In the calculations m is the linear coefficient which determines the average depreciation rate calculated according to the remaining useful life of the asset. The calculation of the linear coefficient is done by the formula: m = 1/n. In Ex. 1 we thus obtain m = 0.07692 (m = 1/n = 1/13), and for Ex. 2 m = 0.08333 (m = 1/n = 1/12).

In the calculations based on the authors' methods the step coefficient f is used in addition. This coefficient determines the amount of deviation between the depreciation values at different periods. The step coefficient is defined by the formula:  $f = 1/n^2$ . Hence the step coefficient in Ex. 1 equals 0.00592 ( $f = 1/n^2 = 1/169$ ), and in Ex. 2 it is 0.00694 ( $f = 1/n^2 = 1/144$ ).

A key regulator of depreciation is the correction coefficient K, which establishes the relationship between the linear and step coefficients and is defined independently. Depending on the managerial tasks this coefficient determines the initial acceleration or deceleration of depreciation.

When using our methods the following mandatory conditions should be satisfied: 1) the difference between the value of

Table 1: Calculation of	f depreciation by the author's and the straight-line
methods	with the planned acceleration step $f$

		Author's method no. 1 (by an odd number of years)			Straight-line method		
Period	K	( <i>m</i> + <i>K</i> *f)	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars <i>C</i> *(6/100)	
1	+6	m + 6f	11.24	10703	7.69	7321	
2	+5	m + 5f	10.65	10140	7.69	7321	
3	+4	m + 4f	10.06	9576	7.69	7321	
4	+3	m + 3f	9.47	9013	7.69	7321	
5	+2	m + 2f	8.88	8450	7.69	7321	
6	+1	m + f	8.88	7886	7.69	7321	
7	0	т	7.89	7323	7.69	7321	
8	-1	m - f	7.10	6760	7.69	7321	
9	-2	m <b>-</b> 2f	6.51	6196	7.69	7321	
10	-3	m - 3f	5.92	5633	7.69	7321	
11	-4	m - 4f	5.33	5070	7.69	7321	
12	-5	m - 5f	4.73	4507	7.69	7321	
13	-6	m <b>-</b> 6f	4.14	3943	7.69	7321	
n = 13			100.00	95200	99.97	95173	
_							

Source: Authors' calculations based on JSC «Irkutskkabel» data

 Table 2: Calculation of depreciation by the author's and the straight-line methods with the planned deceleration step *f*

		Auth (by an d	nor's metho odd number	Straight-line method		
Period	ĸ	( <i>m</i> + <i>K</i> * <i>f</i> )	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars C*(6/100)
1	-6	m - 6f	4.14	3943	7.69	7321
2	-5	m <b>-</b> 5f	4.73	4507	7.69	7321
3	-4	m - 4f	5.33	5070	7.69	7321
4	-3	m <b>-</b> 3f	5.92	5633	7.69	7321
5	-2	m <b>-</b> 2f	6.51	6196	7.69	7321
6	-1	m - f	7.10	6760	7.69	7321
7	0	m	7.69	7323	7.69	7321
8	+1	m + f	8.28	7886	7.69	7321
9	+2	m + 2f	8.88	8450	7.69	7321
10	+3	m + 3f	9.47	9013	7.69	7321
11	+4	m + 4f	10.06	9576	7.69	7321
12	+5	m + 5f	10.65	10140	7.69	7321
13	+6	m + 6f	11.24	10703	7.69	7321
n = 13			100.00	95200	99.97	95173

Source: Authors' calculations based on JSC «Irkutskkabel» data

ECONOMIC ANNALS-XXI

the linear coefficient and the product of the step and correction coefficients should not be less than zero:  $m - K^*f > 0$ ; 2) the sum of all correction coefficients should be equal to zero:  $\sum K = 0$ ; 3) K < n.

Analysis and Results. Tables 1-4 pictorially show that depreciation rate under in-line method as an example 1, where n was equal to 13 years made 7.69% or \$7321,000. In author's method during this period of time depreciation rate ranged from

Table 3: Calculation of depreciation by the author's and the straight-line methods with the planned acceleration step $2f$								
		Auth (by an c	or's metho dd number	Straight-line method				
Period	К	( <i>m</i> + <i>K</i> * <i>f</i> )	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars C*(6/100)		
1	+12	m + 12f	14.79	14083	7.69	7321		
2	+10	m + 10f	13.61	12956	7.69	7321		
3	+8	m + 8f	12.43	11830	7.69	7321		
4	+6	m + 6f	11.24	10703	7.69	7321		
5	+4	m + 4f	10.06	9576	7.69	7321		
6	+2	m + 2f	8.88	8450	7.69	7321		
7	0	т	7.69	7323	7.69	7321		
8	-2	m - 2f	6.51	6196	7.69	7321		
9	-4	m - 4f	5.33	5070	7.69	7321		
10	-6	m - 6f	4.14	3943	7.69	7321		
11	-8	m - 8f	2.96	2817	7.69	7321		
12	-10	m - 10f	1.78	1690	7.69	7321		
13	-12	m - 12f	0.59	563	7.69	7321		
n = 13			100.00	95200	99.97	95173		

Source: Authors' calculations based on JSC «Irkutskkabel» data

Table 4: Calculation of depreciation by the author's and the straight-line methods with the planned deceleration step 2*f* 

		Auth (by an c	or's metho odd number	d no. 1 of years)	Straight-line method	
Period	к	$(m + K^*f)$	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars C*(6/100)
1	-12	m - 12f	0.59	563	7.69	7321
2	-10	m - 10f	1.78	1690	7.69	7321
3	-8	m - 8f	2.96	2817	7.69	7321
4	-6	m - 6f	4.14	3943	7.69	7321
5	-4	m - 4f	5.33	5070	7.69	7321
6	-2	m - 2f	6.51	6196	7.69	7321
7	0	т	7.69	7323	7.69	7321
8	+2	m + 2f	8.88	8450	7.69	7321
9	+4	m + 4f	10.06	9576	7.69	7321
10	+6	m + 6f	11.24	10703	7.69	7321
11	+8	m + 8f	12.43	11830	7.69	7321
12	+10	m + 10f	13.61	12956	7.69	7321
13	+12	m + 12f	14.79	14083	7.69	7321
n = 13			100.00	95200	99.97	95173

Source: Authors' calculations based on JSC «Irkutskkabel» data

Table 5: Calculation of depreciation by the author's and the straight-line methods with the planned acceleration step f

		Auth (on an e	or's methe	od no. 2 er of years)	Straight-line method	
Period	K	(m + K*f)	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars C*(6/100)
1	+ 6	m + 6f	11.39	10848	8.33	7930
2	+ 5	m + 5f	10.88	10362	8.33	7930
3	+ 4	m + 4f	10.37	9876	8.33	7930
4	+ 3	m + 3f	9.86	9390	8.33	7930
5	+ 2	m + 2f	9.35	8905	8.33	7930
6	+ 1	m + f	8.84	8419	8.33	7930
7	- 1	m - f	7.82	7448	8.33	7930
8	- 2	m <b>-</b> 2f	7.31	6962	8.33	7930
9	- 3	m - 3f	6.80	6476	8.33	7930
10	- 4	m - 4f	6.29	5990	8.33	7930
11	- 5	m - 5f	5.78	5505	8.33	7930
12	- 6	m <b>-</b> 6f	5.27	5019	8.33	7930
n = 12			100.00	95200	99.96	95160

Source: Authors' calculations based on JSC «Irkutskkabel» data

0.59% to 14.79% or from \$ 563000 to \$14083,000. Total amount of amortization expenses by the example 1 under in-line method came to 99.97 and generated variance for 0.03 amounting to \$27,000. At the same time, author's methods by the example 1 elicit not any common variances.

Tables 5-8 pictorially show that depreciation rate under inline method as an example 2, where n was equal to 12 years made 8.33% or 7930 thousand dollars. In author's method du-

ring this period of time depreciation rate ranged from 2.72% to 13.95 or from \$2590,000 to \$13276,000. Total amount of amortization expenses by the example 2 under in-line method came to 99.96% and generated variance for 0.04% amounting to \$40,000. At the same time, author's methods by the example 2 elicit not any common variances.

Consequently, it may be concluded that author's methods of variation calculations of depreciation policy formation allow economic entity to form and allocate amortization funds more rationally.

**Discussion.** It is known that capital assets are taken up to get revenue during several years. The period of using capital assets the part of their cost is written to expenses by means amortization.

Depreciation takes special place under forecast of financial flows. It is disclosed in financial statements of an organization as well calculation of capital financial ratios.

Depreciation policy plays important role in management of the organization, for instance, in pricing, tax revenue, expenses and returns regulation, property and collateral assessment, rent payment determination, etc. Development of effective depreciation policy will help in making decisions on business management.

Development of effective depreciation policy is quite difficult and multi aspect problem and to find the most acceptable and appropriate solution it is necessary to pay into account each stage of economic development.

Initial cost of capital funds item will be never written off under declining balance method. Declining balance method and sum-of-years' depreciation method are based at principle of cumulative assessment costs of amortization expenses. These methods allow writing off maximum amortization cost at the beginning of assets' work. Besides. under sum-ofyears' depreciation method, converse cumulative digit can be used and it slows amortization cost at the beginning of assets work, but in contrast with the author's method, this method makes more acute fluctuations of amortization rate years out. In accordance with the line method, it is possible to write off only equal sum of amortization expenses.

Author's method presented above resolve all problems integral to traditional methods of depreciation charging.

**Conclusions.** The reasons to use the methods of accelerated (decelerated) depreciation are the following:

 the highest intensity of the use of fixed assets is accounted for the first years of their operation when they are still physically and mentally new;

- the funds for the replacement of an depreciable asset are accumulated in case of its rapid obsolescence and inflation;

- it is possible to increase the cost of reparation of depreciable assets which is due during the last years of the use of the assets without the corresponding increase in production costs (because of the fact that the amount of depreciation calculated in these years is reduced).

When using a retarded (progressive) depreciation the management of companies increases profits and reduces net costs in the first years of operation of the assets thereby increasing the investment attractiveness of the company, its financial results and financial position.

In many countries, for quite long periods of time, the methods of self-financing of the investment process and the expanded reproduction of the fixed capital have been achieved through depreciation. In the countries with stable economies and well-balanced tax systems along with the linear methods nonlinear methods of calculation with acceleration and deceleration of the returned funds are widely used. Therefore, the depreciation policy methods developed by the authors are better as compared to the known ones and they contribute to the quality of management, strengthen its control and analytic functions for the strategic regulation of the investment process.

Currently, due to the international financial and economic crisis, the industries and businesses instead of straightline methods use complex methods, the former being popular in the past and still in wide use in developing countries.

The author's methods offer a new and effective mechanism, which is devoted to organization of an effective management of the capital using a new approach in depreciation calculation for time periods. This new mechanism is useful for different industrial companies and management's levels as an innovative theoretical strategy.

Moreover, on grounds of author's methods presented above, it is possible to make secondary methods where adjustment factor K will be with not clear sequence, for example +1, +5, +8, -1, -5, -8, and all other kinds of variations.

Using of the author's toolkit for forming the depreciation policy will reduce uncertainty when making investment decisions related to the development of commercial organizations.

#### References

11-12'2014

1. Aaron, H. J. (Ed., 1976). Inflation and the

Income Tax (An Introduction). Inflation and the Income Tax. Washington, D.C.: The Brookings Institution.

2. Auerbach, A. J. (1983). Taxation, Corporate Financial Policy and the Cost of Capital. *Journal of Economic Literature*, 21, 905-940. 3. Cohen, R. (1975). Investment Behavior: The Measurement of Depreciation

and Tax Policy. American Economic Review, 65(March), 59-74.

4. Cohen, R. (1980). Depreciation, Profits, and Rates of Return in Manufacturing Industries. In Dan Usher (Ed.). The Measurement of Capital, Studies in Income and Wealth (pp. 51). Chicago: The University of Chicago Press, National Bureau of Economic Research, Vol. 45. 5. Hulten, C. R., & Frank, C. W. (1996). Issues in the Measurement of Econo-

mic Depreciation: Introductory Remarks. Economic Inquiry, 34(1), 10-23.

methods with the planned deceleration step $f$								
		Auth (on an e	or's metho ven numbe	Straight-line method				
Period	K	( <i>m</i> + <i>K</i> * <i>f</i> )	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars C*(6/100)		
1	-6	m - 6f	5.27	5019	8.33	7930		
2	-5	m <b>-</b> 5f	5.78	5505	8.33	7930		
3	-4	m - 4f	6.29	5990	8.33	7930		
4	-3	m <b>-</b> 3f	6.80	6476	8.33	7930		
5	-2	m <b>-</b> 2f	7.31	6962	8.33	7930		
6	-1	m - f	7.82	7448	8.33	7930		
7	+1	m + f	8.84	8419	8.33	7930		
8	+2	m + 2f	9.35	8905	8.33	7930		
9	+3	m + 3f	9.86	9390	8.33	7930		
10	+4	m + 4f	10.37	9876	8.33	7930		
11	+5	m + 5f	10.88	10362	8.33	7930		
12	+6	m + 6f	11.39	10848	8.33	7930		
n = 12			100.00	95200	99.96	95160		

Table 6: Calculation of depreciation by the author's and the straight-line

Source: Authors' calculations based on JSC «Irkutskkabel» data

### Table 7: Calculation of depreciation by the author's and the straight-line methods with the planned acceleration step 2f

		Auth (on an e	or's metho ven numbe	Straight-line method		
Period	ĸ	( <i>m</i> + <i>K</i> * <i>f</i> )	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars <i>C</i> *(6/100)
1	+ 11	m + 11f	13.95	13276	8.33	7930
2	+ 9	m + 9f	12.93	12305	8.33	7930
3	+ 7	m + 7f	11.90	11333	8.33	7930
4	+ 5	m + 5f	10.88	10362	8.33	7930
5	+ 3	m + 3f	9.86	9390	8.33	7930
6	+ 1	m + f	8.84	8419	8.33	7930
7	- 1	m - f	7.82	7448	8.33	7930
8	- 3	m - 3f	6.80	6476	8.33	7930
9	- 5	m - 5f	5.78	5505	8.33	7930
10	- 7	m - 7f	4.76	4533	8.33	7930
11	- 9	m - 9f	3.74	3562	8.33	7930
12	- 11	m - 11f	2.72	2590	8.33	7930
n = 12			100.00	95200	99.96	95160

Source: Authors' calculations based on JSC «Irkutskkabel» data

#### Table 8: Calculation of depreciation by the author's and the straight-line methods with the planned deceleration step 2f

					- 5	
		Auti (on an e	hor's metho ven numbe	Straight-line method		
Period	K	( <i>m</i> + <i>K</i> * <i>f</i> )	*100%	Sum, thousand dollars C * (3*4)/100	<i>m</i> *100%	Sum, thousand dollars C*(6/100)
1	- 11	m - 11f	2.72	2590	8.33	7930
2	- 9	m - 9f	3.74	3562	8.33	7930
3	- 7	m - 7f	4.76	4533	8.33	7930
4	- 5	m - 5f	5.78	5505	8.33	7930
5	- 3	m - 3f	6.80	6476	8.33	7930
6	- 1	m - f	7.82	7448	8.33	7930
7	+ 1	m + f	8.84	8419	8.33	7930
8	+ 3	m + 3f	9.86	9390	8.33	7930
9	+ 5	m + 5f	10.88	10362	8.33	7930
10	+ 7	m + 7f	11.90	11333	8.33	7930
11	+ 9	m + 9f	12.93	12305	8.33	7930
12	+ 11	m + 11f	13.95	13276	8.33	7930
n = 12			100.00	95200	99.96	95160

Source: Authors' calculations based on JSC «Irkutskkabel» data

6. Hall, R. E., & Dale, W. J. (1967). Tax Policy and Investment Behavior. American Economic Review, 57, 391-414.

Antendar Leconomic Nevew, *J.*, 391414.
 Doms, M. E. (1996). Estimating Capital Efficiency Schedules Within Production Functions. *Economic Inquiry*, *34*(1), 78-92.
 Feldstein, M. A. (1982). Inflation, Tax Rules, and Investment: Some Econometric Evidence. *Econometrica*, *50*(4), 825-862.
 Fullerton, D., & Gordon, R. H. (1983). A Reexamination of Tax Distortions in Control of Tax Distortions in the Science of Tax Distortions in the Science of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Distortions in the Science of Tax Distortion of Tax Dis

General Equilibrium Models. In M. Feldstein (Ed.). Behavioral Simulation Methods in Tax Policy Analysis. Chicago: The University of Chicago Press. 10. Filatov, E. A. (2013). Depreciation policy for the purposes of investment de-

velopment of commercial organizations. Irkutsk, Russia: EPD BSUEL (in Russ.) Received 20.09.2014