

Scientific and Technical Journal Namangan Institute of Engineering and Technology

Volume 8 Issue 2 2023









PROCESSING OF COTTON, TEXTILE AND LIGHT INDUSTRY

UDC 687.1.001.02:675.042

A RESEARCH OF CONSUMER OPINIONS IN FORMING THE IMPORTANT FACTORS OF FUR GARMENTS

KHALIKOVA NIGORA

Doctoral student of Bukhara Institute of Engineering and Technology Email: xoliqova19@gmail.com, Phone: (+99899) 500-70-27

PULATOVA SABOHAT

Professor of Bukhara Institute of Engineering and Technology E-mail.: po'latova58@mail.ru, Phone.: (+99894) 462-01-73

Abstract:

Objective. In this article, issues such as expanding the range of clothes made of black leather, which is considered our local raw material, the high price of fur clothing is a higher percentage than the cost of the finished product, the rational use of semi-finished fur products, and the creation of waste of almost 20% of the total amount of fur used in the enterprise.

Methods. In the article, consumer demand for black leather clothing: product quality and design is illustrated in a diagram.

Results. In our republic, economic analyzes were conducted to expand the range of clothes made of black leather and reduce the cost of the product.

Conclusion. In conclusion, we can say that while the demand for clothes made of black leather, which is considered our raw material, is stable and constantly growing, special attention is being paid to expanding the range of clothes made from black leather.

Keywords: Karakol, leather, assortment, design, consumer, tailors, technologists, designers. combination, production, consumer, technology.

Introduction. The head of our state pays special attention to the development of cattle breeding. In particular, during the visit of the President of Bukhara in February of last year, the local population made a large profit by selling livestock products to the whole world, it is necessary to restore the breeding and experience that is disappearing in this field, and to support shepherds and tailors. had emphasized.

Based on the need to develop the industry, on March 14, 2018, the Decision of the President of the Republic of Uzbekistan "On measures for the rapid development of the piracy industry" was adopted. In accordance with the decision, until January 1, 2023, subjects engaged in cattle breeding and livestock processing enterprises will import goods necessary for cattle breeding, which are not produced in the republic, according to the list to be approved in the prescribed manner.

exempted from payment of customs duties (except customs clearance fees) for materials. In addition, the single land tax rates for livestock producers will remain unchanged until January 1, 2023.

The adoption of the President's Decision on "Measures for comprehensive development of the piracy network", adopted on August 16 of this year, showed how important the integral development of the sector is and was a logical continuation of the ongoing reforms.

Methods. Currently, the light industry in Uzbekistan is a multi-sectoral industrial complex, and the leather and fur industry occupies an important place among its main components.

The production of consumer products, that is, the production of leather and fur products, is growing day by day.

Nowadays, in the formation of market relations in our Republic, increasing the



competitiveness and quality of products in the natural leather production industry remains one of the main problems of today.

In connection with the transition to the market economy and the development of small and medium-sized businesses, the number of actively working women in the republic is increasing year by year. The nature of work for business women is diverse: presentations, conferences, roundtables, parties, trips, etc., which naturally affects the style and comfort of their clothes. Taking these factors into account, the sociological survey questionnaire includes the following slightly modified characteristics as biosocial characteristics of the respondents: employment education, status, income, convenience, height type and age, you can see in the corresponding diagrams.

Results. In order to solve this issue, a questionnaire survey was conducted among the residents of Bukhara region in January 2023. A total of 500 women aged 18-60 participated in the survey. Women of various professions (housewives, students. medical seamstresses, workers, sales representatives, teachers) were selected as respondents. According to the results of the survey, according to the types of activity of the respondents, 9% are housewives, 20% are representatives of the medical field, 22% are representatives of the trade field, and 18% are pedagogues, representatives of other fields (Fig. 1) [7,8].

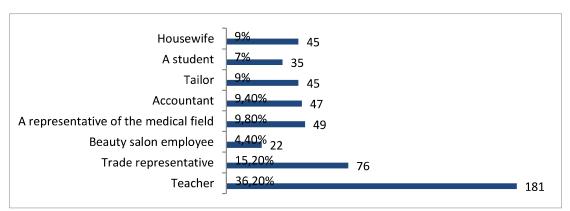
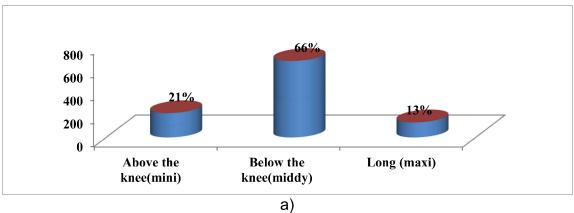


Figure 1. Activities of respondents

According to the length of clothing: above the knee (mini) 21%, below the knee (middi) 66%, long (maxi) 13%. According to clothing style b): classic style is 54.6%, avant-garde style is 17%, romantic style is 12.6%, folk style is 15.8%.





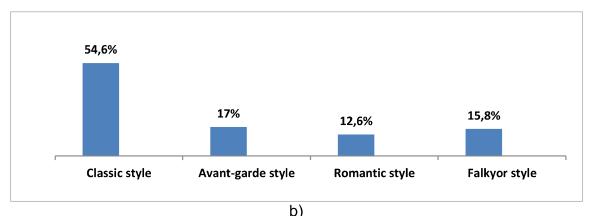


Figure 2. a) Clothing length b) Dress style

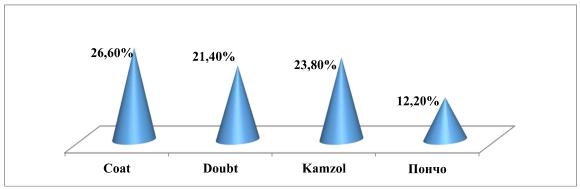


Figure 3. Types of women's outerwear from cowhide leather

In the next survey, 133 people (26.6%) prefer coats made of sheepskin, 107 (21.4%), 119 (23.8%), 119 (23.8%),

ponchos (ponchos), half coat is 80 (16%). So, based on the answers, mostly women prefer to wear buckskin coats.

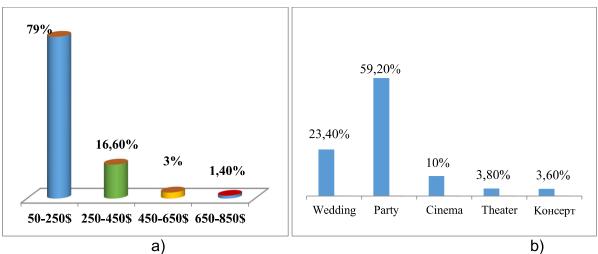


Figure 4. a) Caracol leather women's outerwear price amount b) Places to wear women's outerwear made of cowhide leather

Caracol leather women's outerwear is 79% in the amount of 50-25\$, 3% in the amount of 250-450\$, 3% in the amount of 450-650\$, 1.4% in the amount of 650-850\$.

According to the places where the clothes are worn, weddings are 23.4%, formal parties are 59.2%, movies are 10%, theaters are 3.8%, and concerts are 3.6%.



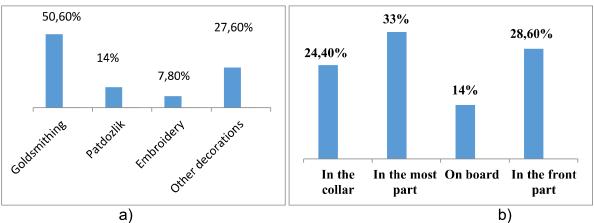


Figure 5. a) Types of ornaments on women's outerwear made of cowhide leather; b) Location of types of ornaments on outerwear

According to the types of decoration in Karakol leather women's outerwear: goldsmithing is 50.6%, embroidery is 14%, embroidery is 7.8%, other decorations are

27.6%. According to the location of decoration types, it is 24.4% in the collar part, 33% in the hem part, 14% in the board part, and 28.6% in the front part.

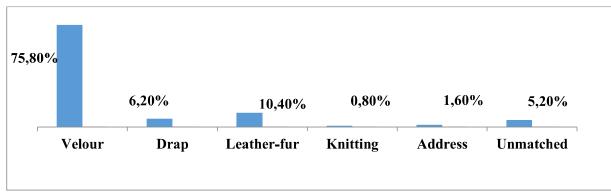


Figure 6. What kind of fabric is combined with women's outerwear made of cowhide leather

According to the fabric that the outerwear is combined with: velor 75.8%, drape 6.2%, leather fur 10.40%, knitwear 0.8%, adras 1.6%, do not want to combine 5.3%.

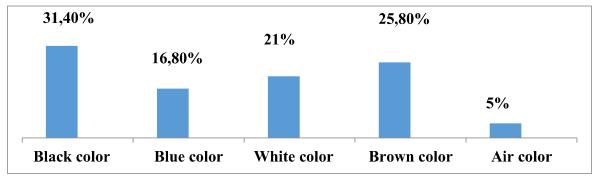


Figure 7. What is the color of women's top from caracol skin

According to the color of women's leather outerwear: black 31.4%, blue 16.8%, white 21%, brown 25.8%, air color 5%.



Discussions. The analysis of the results of the survey on the place of work and profession of the respondents showed that most of them are employees: economists. engineers, entrepreneurs, employees of the economy government agencies. The majority of women prefer the classic style in clothes -68.6%; romantic style (elegant, feminine things) is preferred by -6.2%; sports - 6.2%; vanguard - 6.5%;

When it comes to colors for fur, the majority of respondents preferred rich, muted colors and combinations. The choice of colors was related to the specific type of fur clothing, the age group of the respondent and the purpose of the products.

Eight colors are leading in the color scheme: white (18.2%), black, beige and silver (14.4%), brown (13.2%), gray (12%), yellow (2.7%), khaki (11%). It should be noted that the majority of respondents prefer short coats. Since most of the respondents are business women, the answers are relevant to their lifestyle.

For business meetings (restaurant, office) they prefer short coats that are compatible with two-piece suits: skirt-jacket, jacket-trousers, which can be combined with each other.

The results of the survey on the preferred types of clothing made of fur were distributed as follows: the most popular type among young and middle-aged women was a short coat (41.3%).

In many sociological studies, the following were considered as important characteristics of the respondents: education, employment status, convenience, age, income and height type.

Conclusion. When designing clothes from Karakol leather, he studied the needs and wishes of consumers through a questionnaire, analyzed the existing methods of design, and showed the need to significantly adjust the shape and design of fur products, which differ from analogues in their properties. New methods of designing clothes from Karakol leather should be based on, on the one hand, deep knowledge of the properties of materials, and on the other hand, on ergonomic studies of the dynamic properties of the product.

Modeling and designing clothes from Karakol leather has its own characteristics. In textile materials, only the model determines the number of details and parts of the clothes. In fur clothes, the number of parts, in addition to the style, is determined by the area of the sheepskin.

On the basis of marketing research of consumer demand, the main artistic and constructive features of the design of top products from Karakol were developed.

The matrix was developed and the leading collection of models of women's outerwear was formed.

Using the mathematical theory of the experiment, a new design of women's fur clothing was developed and reasonable design parameters were determined.

References

- 1. Khalikova N.SH., Fatilloeva G.Z., "Selection of the Optimal Design of Women's Fur Outerwear" International Journal of Advanced Research in Science, Enjineering and Texnology. Vol. 7, Issue 1, January 2020.
- 2. Khalikova N.SH "Development of market trends of fur and fur products". Development of science and technology" Scientific and technical journal #2/2021 2.202-207b.
- 3. Khalikova N.SH "Outer clothing made of leather and its physical and mechanical properties" Development of science and technology" Scientific and technical journal #2/2021 2.202-207b.
- 4. Khalikova N.SH "Prospects for the development of the leather shoe industry" "Science and technology development" Scientific and technical magazine #2/2021 2. 202-207b.



- 5. N.Sh Kholikova, M.Nuriddinova, "Gold embroidery art of Bukhara" Young scientist Monthly scientific journal Kazan, 2014. No. 8 part 3, pp. 298-301
- 6. N.Sh Kholikova, Tosheva N.M., Savrieva G.A., "Gold embroidered products of the Bukhara emirs" Young scientist Monthly scientific journal Kazan, 2015. No. 9 Part 12, S. 1302-1305
- 7. .Kholikova N.Sh. "Scientific study of expanding the range of fur clothes" International scientific journal "Vestnik nauki" Part-1. No. 11 (44). Art. 14-21.
- 8. Kholikova N.Sh, Pulatova S.U., "Development of a new range and technology of women's outerwear from astrakhan". Eurasian journal of medical and natural sciences Innovative Academy Research Support Center UIF = 8.3 | SJIF = 5.995 268-272 p.
- 9. Kholikova N.Sh, Ibodova I.I. "Development of market trends in fur products" International scientific journal "Vestnik nauki" Part-6. No. 1 (117). Art. 15-16.
- 10. Kholikova N.Sh "Marketing research of consumer demand for the design of women's outer fur products.". International scientific and technical symposium "Modern engineering problems in the production of consumer goods". Moscow -2019 pp.141-145
- 11. Kholikova N.Sh., Karimov O.U. "Characteristics of the initial data for the design of women's outer fur products" International scientific journal "Bulletin of Science". No. 4-3 (91), P. 37-38.
- 12. Kholikova N.Sh., Bahodirov S.B., "Analysis of consumer preferences for fur products in the world market." International scientific journal "Herald of Science" No. 4-(91), P.39-41.
- 13.Kholikova N.Sh., Karimov O.U., "Fundamentals of improving the trends in the formation of women's faithful fur products" International scientific journal "Bulletin of Science" No. 4-3 (91), P. 37-38.
- 14. Kholikova N.Sh, Ibodova I.I. "Properties and features of fur in the design of clothes" International scientific journal "Vestnik nauki" Part-6. No. 1 (117). Art.17-18.
- 15.Kholikova N.Sh, "Development of a new assortment and technology of women's outerwear from Karakol leather. Collection of theses of the scientific-practical conference of professors, researchers, masters and students dedicated to "Glorification of human di
- 16. Khaliqova N.SH, "History of Karakol leather and its importance in the fashion industry. Collection of theses of the scientific-practical conference of professors, researchers, masters and students dedicated to the "Glorification of human dignity and the year of active neighborhood" (May 27-28, 2022) p. 93
- 17. Khaliqova N.Sh., "Modern trends in the formation of women's fur products" Fan, ta'lim, ishlab chiqarish integratsiyalashuvi sharoitida paxta tozalash, to'qimachilik, yengil sanoat, matbaa ishlab chiqarish innovatsion texnologiyalari dolzarb muammola ri va ularning yechimi" Respublika ilmiy-amaliy anjuman materiallari to'plami (2022 yil 18-19 may) 249-252b.
- 18. KholikovaN.SH, "Classification and assortment of products made of fur" International scientific magazine "Science and innovation" (ISSN: 2181-3337) published in issue 4 of 2022. 293-297 p, Science and innovation. International scentifik jurnal 2022 №4. Academy of Science and Innovation. Series A Volume 1 Issue 4. Impact facttor.8.2 ISSN:2181-333.
- 19. Kholikova N.Sh, "Novaya technology verkhney zhenskoy odejdy iz karakulya. Innovative development in educational activities, 1(5), 405–409. Volume 1, Issue 5, November, 2022 https://doi.org/10.5281/zenodo.7461114
- 20. Kholikova N.Sh, "The importance of color in the preparation of clothes from black leather" International scientific journal "Interpretation and researches" Volume 1 issue 3 | ISSN: 2181-4163 | UIF-2023: 8.2



CONTENTS

PRIMARY PROCESSING OF COTTON, TEXTILE AND LIGHT INDUSTRY	
N.Khalikova, S.Pulatova	
A research of consumer opinions in forming the important factors of fur garments	3
N.Khalikova, S.Pulatova	
Literary analysis new technologies of women's outer clothing from carakul	9
Sh.Korabayev, H.Bobojanov, S.Matismailov, K.Akhmedov	
Study of aerodynamic characteristics of cotton fiber in separator of pneumo- mechanical spinning machine	14
Sh.Korabayev	
Research of the movement of fibers in the confusion between the air channel	18
and the rotor in a pneumo-mechanical spinning machine	10
M.Mirsadikov, M.Mukimov, K.Kholikov, N.Karimov, Sh.Mamadjanov	
Analysis of technological parameters and physic-mechanical properties of interlock knitted fabric knitted from cotton-nitron yarn	23
M.Mirsadikov, M.Mukimov, K.Kholikov, N.Karimov	
Study of technological parameters and physical-mechanical properties of rib fabric knitted from spinning cotton-nitron yarn	32
N.Karimov	
Analytical calculation of the deformation state of the saw gin saw teeth	20
bending under the action of a load	38
Z.Ahmedova, A.Khojiyev	
Analysis of headwear and beret in fashion	42
N.Khusanova, A.Khojiyev	
Creation of a new model of women's coat	51
M.Abdukarimova, R.Nuridinova, Sh.Mahsudov	
Method of designing special clothing based on approval of contamination assessment methodology	59
Sh.Isayev, M.Mamadaliyev, I.Muhsinov, M.Inamova, S.Egamov	
Practical and theoretical analysis of the results obtained in the process of	67
cleaning cotton from impurities	ID
FOOD TECHNOLOGIES	שא
D.Saribaeva, O.Mallaboyev	
Scientific basis for the production technology of fruit lozenges (marshmallow)	74
R.Mohamed, K.Serkaev, D.Ramazonova, M.Samadiy	
Development of technology to incorporate dehydrated murunga leaf powder	79
in paneer cheese	
in paneer cheese	
Indicators of blending of refined vegetable oils	87
O.Ergashev, A.Egamberdiev	
Choosing acceptable parameters for experiment on new energy-saving	92
vacuum sublimation drying equipment	34



A.Eshonto'rayev, D.Sagdullayeva, D.Salihanova	
Determining the effectiveness of soaking almond kernels before processing	97
CHEMICAL TECHNOLOGIES	
Sh.Kiyomov, A.Djalilov, R.Zayniyeva	
Adhesion of a thermoreactive epoxy waterful emulsion film former on metal	102
A.Djalilov, Sh.Kiyomov	
Synthesis of a non-isocyanate urethane oligomer based on phthalic	107
anhydride	
T.Abdulxaev	
Water vapor adsorption isotherm on zeolite AgZSM-5	114
F.Juraboev, B.Tursunov, M.Togaeva	
Study of the catalytic synthesis of o-vinyl ether based on monoethanolamine	120
and acetylene	
S.Mardanov, Sh.Khamdamova	
Solubility of components in the system NaClO3 CO(NH2)2-NH(C2H4OH)2 - H2O	124
D.Salikhanova, Z.Usmonova, M.Mamadjonova	
Technological basis of activated carbon production process through	
processing of plum seed waste	128
N.Alieva	
Analysis of the effect of adhesive substances on paper strength	134
Sh.Rahimjanova, A.Hudayberdiev	104
Optimization of heating of mixtures of oil and gas condensate by hot flows of	138
fractions in tubular heat exchangers	130
M.Mehmonkhanov, R.Paygamov, H.Bahronov, A.Abdikamalova,	
I Echmotov	
I.Eshmetov	
Binding materials for creating coal granules and their colloid-chemical	146
Binding materials for creating coal granules and their colloid-chemical characteristics	146
Binding materials for creating coal granules and their colloid-chemical characteristics	146 152
Binding materials for creating coal granules and their colloid-chemical characteristics	
Binding materials for creating coal granules and their colloid-chemical characteristics	
Binding materials for creating coal granules and their colloid-chemical characteristics	
Binding materials for creating coal granules and their colloid-chemical characteristics	152
Binding materials for creating coal granules and their colloid-chemical characteristics. A.Khurmamatov, S.Boyturayev Analysis of oil dust released during processing of metal surfaces under laboratory conditions. M.Kalilayev, Sh.Bukhorov, A.Abdikamalova, I.Eshmetov, M.Khalilov. Study of foam formation in polymer solutions depending on the content and nature of surfactants. MECHANICS AND ENGINEERING	152
Binding materials for creating coal granules and their colloid-chemical characteristics	152 159
Binding materials for creating coal granules and their colloid-chemical characteristics	152
Binding materials for creating coal granules and their colloid-chemical characteristics. A.Khurmamatov, S.Boyturayev Analysis of oil dust released during processing of metal surfaces under laboratory conditions. M.Kalilayev, Sh.Bukhorov, A.Abdikamalova, I.Eshmetov, M.Khalilov. Study of foam formation in polymer solutions depending on the content and nature of surfactants. MECHANICS AND ENGINEERING Sh.Pozilov, O.Ishnazarov, R.Sultonov Frequency adjustment of well pumping equipment. H.Kadyrov	152 159 167
Binding materials for creating coal granules and their colloid-chemical characteristics. A.Khurmamatov, S.Boyturayev Analysis of oil dust released during processing of metal surfaces under laboratory conditions. M.Kalilayev, Sh.Bukhorov, A.Abdikamalova, I.Eshmetov, M.Khalilov. Study of foam formation in polymer solutions depending on the content and nature of surfactants. MECHANICS AND ENGINEERING Sh.Pozilov, O.Ishnazarov, R.Sultonov Frequency adjustment of well pumping equipment. H.Kadyrov Control of vibration parameters on the tank wall of oil power transformers in operation.	152 159
Binding materials for creating coal granules and their colloid-chemical characteristics. A.Khurmamatov, S.Boyturayev Analysis of oil dust released during processing of metal surfaces under laboratory conditions. M.Kalilayev, Sh.Bukhorov, A.Abdikamalova, I.Eshmetov, M.Khalilov. Study of foam formation in polymer solutions depending on the content and nature of surfactants. MECHANICS AND ENGINEERING Sh.Pozilov, O.Ishnazarov, R.Sultonov Frequency adjustment of well pumping equipment. H.Kadyrov	152 159 167
Binding materials for creating coal granules and their colloid-chemical characteristics. A.Khurmamatov, S.Boyturayev Analysis of oil dust released during processing of metal surfaces under laboratory conditions. M.Kalilayev, Sh.Bukhorov, A.Abdikamalova, I.Eshmetov, M.Khalilov. Study of foam formation in polymer solutions depending on the content and nature of surfactants. MECHANICS AND ENGINEERING Sh.Pozilov, O.Ishnazarov, R.Sultonov Frequency adjustment of well pumping equipment. H.Kadyrov Control of vibration parameters on the tank wall of oil power transformers in operation. S.Khudayberganov, A.Abdurakhmanov, U.Khusenov, A.Yusupov	152 159 167
Binding materials for creating coal granules and their colloid-chemical characteristics. A.Khurmamatov, S.Boyturayev Analysis of oil dust released during processing of metal surfaces under laboratory conditions. M.Kalilayev, Sh.Bukhorov, A.Abdikamalova, I.Eshmetov, M.Khalilov. Study of foam formation in polymer solutions depending on the content and nature of surfactants. MECHANICS AND ENGINEERING Sh.Pozilov, O.Ishnazarov, R.Sultonov Frequency adjustment of well pumping equipment. H.Kadyrov Control of vibration parameters on the tank wall of oil power transformers in operation.	152 159 167 179
Binding materials for creating coal granules and their colloid-chemical characteristics	152 159 167 179
Binding materials for creating coal granules and their colloid-chemical characteristics	152 159 167 179
Binding materials for creating coal granules and their colloid-chemical characteristics	152 159 167 179 185 189
Binding materials for creating coal granules and their colloid-chemical characteristics	152 159 167 179



Analysis of solar energy devices	205
D.Mukhtarov, R.Rakhimov	
Determining comparative efficiency in composite film solar dryers	213
P.Matkarimov, D.Juraev, S.Usmonkhujaev	
Stress-strain state of soil dams under the action of static loads	221
A.Khayrullaev	
Microcontroller-based remote monitoring of overhead power lines	228
A.Mamaxonov, I.Xikmatillayev	
Design of a resource-efficient chain drive structure for the device drive that	237
distributes the seed in the bunker to the linters	231
A.Yusufov	
Analysis of existing methods and approaches to the assessment of residual	243
resources of traction rolling stock	243
A.Djuraev, F.Turaev	
Determination of the friction force between the composite feeding cylinder	249
and the fiber rove	
A.Kuziev	
Forecasting the prospective volume of cargo transportation for the	253
development of the transport network	
N.Pirmatov, A.Panoev	
Control of static and dynamic modes of asynchronous motor of fodder	260
grinding devices	
ADVANCED PEDAGOGICAL TECHNOLOGIES IN EDUCATION	
K.Ismanova	
Systematic analysis of the state of control of the technological processes of	267
underground leaching	
K.Shokuchkorov, Y.Ruzmetov	
Analysis in solidworks software of the strengths generated in the	
underground part of the wagons as a result of the impact of force on the	273
entire wheels of wagons	
A.Yuldashev	
The processes of gradual modernization of the state administration system	278
in uzbekistan over the years of independence	
ECONOMICAL SCIENCES	
O.Khudayberdiev	
Fourth industrial revolution in the textile and garment manufacturing	287
N.Umarova	
Methodology for assesment of external factors affecting the financial security	293
of building materials industry enterprises	