

Summary

Avdonin K.V. Definite solutions of homogeneous differential equations in the form of functional series / Вісник КНУТД №6, 2009, с. 7–12.

A new method of finding definite of integral and differential equations is proposed. The examples of their applications are given.

Bila T.J., Statsenko V.V. The investigation of regulator type and parameters influence on the control system operation of continuous action mixer complex / Вісник КНУТД №6, 2009, с. 13–16.

The control system regulator synthesis algorithm of continuous action mixer complex is examined in the article. Investigation of system transient processes which take place during usage regulators of different structures is provided.

Gamelyak I.P., Kostritskiy V.V., Artemenko L.F. Problems of the use of geological synthetic materials are in travelling building and way of their decision / Вісник КНУТД №6, 2009, с. 17–27.

Problems and results of researches are expounded on application of geological synthetic materials for the increase of durability, to stability to tensions of change and development of cracks in coverage's from a concrete in the air field and travelling building. Resulted classification, the basic functions of geological synthetic materials and their description are certain, the ways of development and application of geological synthetic materials are shown, taking into account their efficiency, variety, multifunction's and wide application domain.

Dolgov N.A., Zubretskaya N.A., Devils A.V. Research cohesive strength and crack resistance of plasma coatings / Вісник КНУТД №6, 2009, с. 28–33.

In testing the tensile strength were investigated elastic properties of plasma coatings of cobalt-chromium alloy, deposited on the base, cast from the same material. The study defined cohesive strength and crack resistance of coatings. It is noted that the plasma coating has a modulus of elasticity less than the base. Tension plate specimens with surface causes the appearance in plasma coatings grid microcracks, but does not lead to peeling coating.

Lapshyn V.F., Maxymov V.K., Potapov A.A. Amorphous CdP₂ - perspective material for electronic technology / Вісник КНУТД №6, 2009, с. 33–37.

The article is dedicated to issues of materials technology. A new semiconductive amorphous material CdP₂ is suggested, its conductivity factor is searched as well as influence of specific density of energy levels for electrons on it and its compensation. Proposed material can be used for production of active elements of electronic technology.

Kuznetsova O.O. The prediction of hollow building blocks effective heat conductivity coefficient / Вісник КНУТД №6, 2009, с. 37–42.

The results of effective heat conductivity coefficient determination of hollow building blocks obtained by numerical experiment are represented. The obtained results indicate that effective heat conductivity coefficient depends on size of building block holes.

Oliylyk O.Y., Pipa B.F. Pressure stabilisation guy platens on a cloth circular knitter / Вісник КНУТД №6, 2009, с. 43–46.

Results of researches on improvement of mechanisms of a delay of a cloth circular knitter for the purpose of pressure stabilisation guy platens on a cloth are resulted. The method of definition of working parametres of the advanced mechanism of a delay of a cloth is offered.

Pastukh O.A. Computational power for saving relations of fuzzy sets of second level and computational power for saving relations of quantum fuzzy sets of second level / Вісник КНУТД №6, 2009, с. 47–50.

Computational power for saving relations of fuzzy sets of second level in the fuzzy information systems and computational power for saving relations of quantum fuzzy sets of second level in the quantum fuzzy information systems of second level had been compared. Asymptotic estimation of algorithmic complexity for saving binary fuzzy relations of second level and binary quantum fuzzy relations of second level, ternary fuzzy relations of second level and ternary quantum fuzzy relations of second level, N-th fuzzy relations of second level and N-th quantum fuzzy relations of second level had been calculated and compared. Results of compare may be used for science research.

Lukanina T.G. Determination of parameters of bodies transference by means of air flows / Вісник КНУТД №6, 2009, с. 51–55.

Equation of movement and formula to define the speed of the body by using air flows for its transference has been obtained. Comparative analysis of tentative and rated data of speed of body transference depending on constructive parameters of pneumatic transport system has been given. Dependence of the rate of movement on the time if remains under effect of air flows has been determined.

Pishchikov V.O., Orlovskiy B.V. Optimization of formulas of structure of flat vagilnih machineries / Вісник КНУТД №6, 2009, с. 55–62.

The critical analysis of composition and configurations of formulas of structure of flat vagilnih machineries is conducted which are used at modern to literature. The offered expedient changes, addition and standardization of formulas of structure of machineries in accordance with structural classification Assoura-Artobolevscogo.

Chuprinka V.I., Homenko E.A., Svistunova L.T. Procedure of determination of optimum sequence combination of sections in nesting / Вісник КНУТД №6, 2009, с. 63–68.

The method of determination of tight joint of sections in nesting is in research presented. The task of determination of optimum sequence of combination of sections is erected to the task of traveling salesman, that is presented as a mathematical model.

Yahno V.M., Melnik G.V. Calculative circuit of algorithms for sequential optimization which minimizes searches in the tree of variants / Вісник КНУТД №6, 2009, с. 68–71.

Propose an improving of algorithms solving tasks of discrete programming, which are based on computing scheme of branches and limits, which are seem to be algorithms of sorting tree of variants union of algorithms elimination invalid and nonoptimal variants, also algorithms partitioning discrete sets, determined in Euclidean space. Showed, that is possible computing scheme, which is does not need any searching in the tree of variants and computing limits.

Riabchykov O.M. Computer modelling of geometrical properties curvilinear borders of natural leather / Вісник КНУТД №6, 2009, с. 71–75.

The results of computer modelling of curvilinear borders of natural leather for further use in systems of the automated designing are presented. Offered algorithm of the program for recognition of details and transfer information to vectorial form, also system requirements for work of the program are proved, the program of transformation of the raster image to vectorial is developed and fulfilled.

Polonskiy V.A., Dromenko V.B. Statistics of the systems of stabilizing of nitepodachi / Вісник КНУТД №6, 2009, с. 75–78.

Исследование статического метода *osnovoyuzal'nogo* процесa проводится, для управления, которое есть, назначают системы стабилизации *nitepodachi*. Структура регулятора *nitepodachi*, будучи основанным на новом варианте выбора вектора информирования параметров объектов управления грунтуется.

Zdorenko V.G., Sannikov V.Y., Chernomorchenko V.K., Chefranov V.P. Analysis knitting machine of connecting states of working / Вісник КНУТД №6, 2009, с. 78–84.

In article are brought the results of study of mechanisms of presenting, delays and roll of linen of knitted machines. It is formed generalized dynamic model of a knitted machine, as well as dynamic models for starting and stops, is organized their analysis. It is shown by that reason of arising the defects of knitted linen is an imperfection of mechanisms of presenting the base, delays and roll of knitted linen.

Budash Yu.A., Malyutin D.A., Haritonov D.V. Relationship bulk density and average diameter of cells in porous systems / Вісник КНУТД №6, 2009, с. 85–88.

The regularities of change in the surface gas-filled model systems when changing the initial conditions of their construction. We establish a correlation between the average diameter of cells in model systems, and volume weight, specific to the parameter of the surface gas-filled. The nature of the relationship qualitatively similar to the relationship between these parameters in real foams.

Lishchuk V.I., Kostritskiy V.V., Danilkovich A.G. Diffusive theory of mass-exchange in the production of leather. The general principles of the problem considered / Вісник КНУТД №6, 2009, с. 88–94.

Mathematical dependences of mass-exchangeable flows of substances «non-collagen derma components – technological solution» – in view of the concentration and temperature gradients have been investigated. It has been shown that the rate of mass-exchangeable flows in double componential system can be regulated by the change of the technological solvent temperature.

Teslia O.P., Mokrousova O.R., Kovtunencko O.V., Bekharskiy V.I. The investigation of interaction of econat components by using IR –spectroscopic method / Вісник КНУТД №6, 2009, с. 95–99.

The article is concerned with the results of IR-spectroscopic investigations of the character and the intensity of interaction between collagen containing LMK and modified bentonite which are the components of the filling composition Econat and obtained composition with collagen of derma. It has been shown that the possible interaction results from the formation of different bonds: covalent, electrovalence, hydrogen and Van-der-Vaals forces.

Frolova N.A. The analysis of the functional potentiometres accuracy / Вісник КНУТД №6, 2009, с. 100–103.

In this abstract you will find the analysis of the known methods for the computation of the functional potentiometres accuracy, and the summary of their's disadvantages, there is also a new method for the computation of the functional potentiometres accuracy recommended.

Baranova A.I., Nikolaeva T.V. The definition of compositional and technological signs of Ukrainian national costume in the designing of modern clothes / Вісник КНУТД №6, 2009, с. 104–111.

The article gives the results of investigation of the designing process improvement of outer clothes from natural leather and fur, on the basis of consumer and experts opinion studying. Also the results of designation of optimal structure and classification of technological elements in costume forms construction. The results of investigation shows the most interesting and perspective directions in the designing of modern clothes collections from natural leather and fur.

Vlasenko V.I. Theoretical investigation of water absorption by textiles. Part 1. Semiempirical model of water absorption with constant diffusion coefficient / Вісник КНУТД №6, 2009, с. 111–118.

The general approach to solution of task of non-stationary water absorption by textiles mathematical model creation is offered. Linear equation of water absorption perpendicularly to a plane of textiles is offered also. For simplification of its solution the diffusion coefficient was accepted constant. Unknown function of concentration is presented as infinite series which is product of two functions. One of function depends only on time; the second one depends only on concentration. We propose this approach to use at the solution of nonlinear model of water absorption.

Hardabkhadze I.A. The analysis of effectiveness enhancement factors for design-processes of modern clothes / Вісник КНУТД №6, 2009, с. 119–124.

The analysis of effectiveness increase factors for designing of modern clothes is conducted. Suggestion carries out the principle of comparison of current process with the idealized model of standard process. A development process is presented by means of sum of two types of internal processes. The first group consists of processes, based on art-aesthetic creation, the second group - from technological processes. The simple method for results integration of separate component optimisation is offered. General methodology for the efficiency process management is based on the multicomponent model

Koshevko Y.V., Kulakov O.I., Kushevskiy M.O. Formozakreplenie details of sewings wares with giving by him gidrofobnykh properties / Вісник КНУТД №6, 2009, с. 124–131.

In clause the question of giving of necessary rigidity and water repellency to details of garments is considered at volumetric forms with use of compositions on the basis of styrene-acril of copolymers and pitches. On the basis of the received researches by authors compositions for giving are offered to textile materials of necessary properties.

Popovich O.V., Pribega D.V., Kushevskiy M.O. Determination of constituents of the power field at forming of by volume details of clothes by a gidrostrumnevym method / Вісник КНУТД №6, 2009, с. 131–136.

The authors reviewed theoretical assumptions of forming the bulk of details of clothing hydro method, given the extent to the components of the force field on the quality of the molding process.

Mikhaylovskaya O.A., Dombrovskiy A.B., Liba V.P. Antropobiometricheskie grounds of improvement of internal form and construction of the special child's shoe for employments by sporting dances / Вісник КНУТД №6, 2009, с. 136–143.

The analysis of antropobiometricheskikh parameters is conducted feet girls, engaged in sporting dances with the purpose of creation of rational internal form and construction of the special child's shoe for employments by sporting dances.

Babich L.M. Actual problems of formation of the budgetary legislation in modern economic conditions / Вісник КНУТД №6, 2009, с. 144–151.

The article deals with current issues for improving the current Budget Code of Ukraine and of mutual with his budget and tax legislation.

Babina N.O. The prerequisites for ensuring the mechanism of enterprise economic security / Вісник КНУТД №6, 2009, с. 151–156.

The article focuses on the issue of identifying the prerequisites for ensuring the national enterprises economic security in present-day economic situation. On the strength of the analysis of Western scholars' research contribution on the issue, the author arrives at the conclusion that the mechanism of ensuring enterprise economic security is conditioned by effective meeting the enterprise diverse interests with those of external environment entities. It is aimed at gaining the profit, retaining the enterprise stability level as well as its competitiveness.

Vlasyuk T.M. Methodical basement development of industrial enterprises investment attraction assessment / Вісник КНУТД №6, 2009, с. 156–164.

Economic nature of industrial enterprises investment attraction has been taken into consideration, present methodologies of investment attraction assessment have been analyzed and the system of indicators used for such assessment has been generalized.

Zhovna O.M. Planning of sizes of charges on a consumption and investments on ore mining and processing combines / Вісник КНУТД №6, 2009, с. 164–171.

Existent methodical approaches to estimation of results of activity of enterprise are considered, their failings are certain. It is suggested during conducting of estimation of results of activity to take into account the tendencies of distribution of profit existing on an enterprise. Economical mathematical dependences of charges on consumption and investments from a gross profit margin and methodical approaches to determination of the grounded size of the indicated charges are developed.

Bozhkova T.V. Informative streams of the logistic systems / Вісник КНУТД №6, 2009, с. 172–176.

In article the informative streams of the logistic systems, their role and meaning(importance), quantitative characteristics are investigated, as the informative streams, which accompanies with a stream material, goes in parallel with practical activity in spheres of supply, maintenance and physical distribution, facilitates coordination and planning of daily operations of a logistic circuit.

Lozynska S.I. Determination of essence and processes transformation period of Ukraine economy / Вісник КНУТД №6, 2009, с. 177–181.

The analysis of principal propositions concerning the determination of the content and essence of the transformational period of the Ukraine economy for 2001-2008 is conducted.

On this basis the prognosis of GDP for 2009-2011 as one of the basic indexes of the transitional economy is grounded. On the example of the light industry of Ukraine, it is proved that any economic systems are transformation in the essence, but the degree of their transformation substantially influences the strategy of their further development.

Maksimenko I.O., Boki V.I. Fundamentals of conceptual approach to management of economic development of enterprise / Вісник КНУТД №6, 2009, с. 182–188.

The article deals with fundamentals of conceptual approach to management of economic development of enterprise. It was determined the interaction between main blocs of economical potential and aspects of activity and lines of enterprise development. The article gave the logical interrelation of economic development of enterprise, market price of this enterprise according to its investment attraction. Key terms are: economical potential, enterprise value, economic development of enterprise.

Motuzka O.M. Preterms of the static measuring of effectiveness of international technical help / Вісник КНУТД №6, 2009, с. 188–193.

Actuality of international technical assistance is considered in the article, expedience of development of mechanism of the statistical measuring of its effectiveness is grounded.

Molodetska O.M. The modern going near classification component economic security of enterprises / Вісник КНУТД №6, 2009, с. 194–198.

In given article is considered known author's categorizations forming parts to economic safety enterprise. They Are Chosen especial types of the threats to economic safety in modern condition of the management. The Advanced categorization forming economic safety with provision for categorizations of the economic threats.

Natroshevili G.R. Enhancing exporting potential of enterprises in Ukrainian regions / Вісник КНУТД №6, 2009, с. 198–202.

The article focuses on the issue of forming the mechanism for enhancing national enterprises exporting potential in Ukrainian regions. On the strength of the analysis conducted on the material from the world and national experience resources, the author arrives at the conclusion that enhancing exporting potential is conditioned by retrieving the regional inherent opportunities particularly in the period of transformation process in economy.

Serbenivska A.Y. Co-operation of levels of state administration innovative activity is in Ukraine / Вісник КНУТД №6, 2009, с. 202–207.

Innovative development is the determinative of growth of efficiency of activity of enterprise, upgrading of products, economy and advantageous use of natural resources, prevention of ecological consequences of industrialization. Only on condition of achievement high level of innovative activity of enterprises the economy of country will be able to join in the world process of economic development.

Shulga V.M. Prospects of development of strategic management expenses on domestic enterprises / Вісник КНУТД №6, 2009, с. 208–213.

In the article is probed economic essence of concept of competitive edges as bases of strategic development of enterprise, and also possible alternative variants of their strengthening. Actuality of this research consists in that in the modern terms of ménages more attention spared the questions of increase of competitiveness, which largely is the determinative of development of any economic system.

Yankovec T.M. Classification of innovations with the purpose of strategic management enterprises of light industry / Вісник КНУТД №6, 2009, с. 213–220.

In the article the use of innovations is grounded as an instrument of achievement of strategic purpose of enterprise. Author interpretation of definition is presented «innovation». Principles and terms of successful innovation are considered. Classification of innovations is improved for a strategic management, adapted to the use of light industry enterprises.

Pavlenko G.Y., Ostapchuk I.P., Prudnikova N.D., Karnaukh O.P., Natalushko N.I. Modern going near social responsibility as component commercialization of developments of KNUTD / Вісник КНУТД №6, 2009, с. 220–223.

The results of researches of developments and introduction of new technical decisions which provide the observance of social responsibility for their acceptance are resulted in the article. The problems of realization of mechanism of commercialization of intellectual property behave to the theoretical and practical aspects taking into account the modern going near social responsibility.

Cimbalenko A.P., Mokrousova E.R., Sergienkova O.M. Credit-module system by the eyes of students / Вісник КНУТД №6, 2009, с. 224–228.

Efficiency of introduction of changes of higher school is investigational in Ukraine accordingly to to credit-module system from position of students. Questioning of students is executed with the purpose of determination of their attitude toward the requirements of the Bolonskoy system. The necessity of more grounded approaches is set in relation to explanations and introductions of the newest methods of teaching at higher educational establishments of Ukraine.