

ABSTRACT&REFERENCES

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THE DEVELOPMENT OF THE TECHNOLOGY AIMED TO OBTAIN SERUM FOR DIAGNOSIS AND TREATMENT OF THE FELINE CALICIVIRUS

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An effective scheme of immunization to obtain hyperimmune serum against FCV was developed. The antigen was being injected subcutaneously and intramuscularly with simultaneous use of immunostimulator "Imunofan". An allocation of globulin fraction of proteins by desalting ammonium sulfate was performed. The fractions of pure immunoglobulin G with specific gravity 2 times higher than in the neat serum were being received

Keywords: immunoglobulins, hyperimmune serum, virus, antigen, antibodies, feline calicivirus, globulin, treatment

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INVESTIGATION OF DEVELOPMENT STAGES OF THE FINANCIAL AND ECONOMIC ANALYSIS IN CONNECTION WITH THE NEEDS OF ENTERPRISE MANAGEMENT

p. 10-15

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The development of the financial-economic analysis is shown in connection with the possibility of its using in enterprise management. The discrepancy between the analysis methods and management requirements is disclosed. Theoretical fundamentals and tools that would allow to describe and predict the changes of economic processes in the enterprise has not developed in Ukraine. New approaches and directions for further research are discussed in the article

Keywords: stages of development of financial-economic analysis, needs of enterprise management, modern methods of analysis

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INNOVATIVE ACTIVITY AS TRANSFORMATION OF ITS INTELLECTUAL ACTIVITY

p. 15-21

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The attention is given to the nature of the category "innovative activity", which is based on assessment practice of the coherence of the concepts "intelligence of the organizations" and "innovative activity". It is also specified that it is necessary to develop a system of indicators for the evaluation of innovative activities by which it is possible to identify the internal factors of the organization on the basis of knowledge economics. The mathematical assessment model of "intellectual activity" is proposed

Keywords: innovative activity, innovative activity organization, intellectual organization, synergetics, knowledge economics

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“DENIM JEWELRY” IN THE CONTEXT OF THEATRICALITY OF EVERYDAY LIFE

p. 22-26

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The role of «denim jewelry» in theatricality of everyday life is investigated. It is found that denim has undergone several transformations and functional meaning when translated into different cultural contexts: as a material for working clothes, youth fashion, costume jewelry. Production of author's jewelry shows opportunities of “denim jewelry” to create not only different images, but also the stage space

Keywords: jewelry, denim, theatricality of everyday life, image, cultural context, fashion, design

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FORMATION OF TOLERANCE THROUGH THE PRISM OF «FUSION OF CULTURES» – THE EXPERIENCE OF DEVELOPED COUNTRIES (USA, CANADA, AUSTRALIA, UK, GERMANY)

p. 27-30

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The article deals with demographic, socio-cultural and psychological preconditions of communicative tolerance through the prism of «fusion of culture». The essence of such concepts as «multiculturalism» «multiethnic environment», «tolerance» have been Identified. Approaches to identify and study the tolerance, ethnicity (ethnic) tolerance on the example of several countries (USA, Canada, Australia, UK, Germany) have been characterized.

The main directions of tolerance in terms of the national education system and the upbringing are presented based on international experience

Keywords: tolerance, multiculturalism, multiethnic environment, pluralism, cultural deprivation, assimilation, identification

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PROVISION OF MASKING OF TANKS IN OPEN FORTIFICATIONS

p. 31-36

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Results of laboratory tests of the mock battle tank from the means of air reconnaissance are analyzed. It is proved that the use of artificial forming for fencing surfaces based on the principles of building of caustic zones caustic with adjustable wave coincidence allows achieving full masking of tank on the resonance level of ultrasonic irradiation of external shell-like tunnel with partial immersion of its bottom into a soil

Keywords: fortification, methods of location, caustic zone, wave coincidence, ultrasonic irradiation

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SELECTION OF STATE VARIABLES AND ALGORITHMS OF PARAMETRIC IDENTIFICATION OF THE OBJECT BY ITS KINEMATIC CHARACTERISTICS

p. 37-41

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It is shown that algorithms of fuzzy clustering or algorithms of parametric classification can be used to solve the problem of qualitative identification under fuzzy data. It is suggested that in the conditions of masking the object as information signs for solving the recognition problem it is necessary to use the kinematic characteristics of their motion: the components of the velocity vectors and the acceleration of the characteristic points of the object in a system of generalized coordinates using Lame functions

Keywords: pattern recognition, fuzzy clustering, algorithms of parametric classification, generalized coordinates, Lame functions

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RESEARCH OF HYDRODYNAMICS PROCESSES IN THE EVAPORATOR WITH FORCED CIRCULATION AND BOILING OF SOLUTION IN PIPES

p. 41-45

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The work is devoted to research and intensification of the process of boiling of solutions with different viscosities in evaporators of a tubular type with forced circulation and a drift boiling zone. The main factors that influence the change in the hydraulic resistance of the heating chamber under various operating conditions and the dependence of the loss on vapor content are determined on the developed laboratory device. The optimum value of the circulation velocity of the working solution at various temperatures and the boiling zones is also found in the article

Keywords: evaporator, separator, vapor-liquid mixture, vapor content, vacuum regime, circulation rate

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DEVELOPMENT OF METHODS FOR DETERMINATION OF KOTRECHKO HARDNESS OF WOOD AND LAMINATED PLASTICS

p. 45-48

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New methods for hardness determination of wood and laminated plastic taking into account anisotropy of their properties are developed. The hardness of the wood and laminated plastics explores at the angles to the direction of the fibers. Triangular prism with the ends that cut towards working blade is used as the indenter. Hardness indicators obtained using these methods is more accurate than using existing ones

Keywords: wood, laminated plastics, hardness, anisotropy, indenter, triangular prism, blade, loading

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MONITORING OF CASTINGS QUALITY FOR USE IN CAD SYSTEMS OF FOUNDRY PRODUCTION TECHNOLOGIES

p. 48-52

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The dimensional accuracy of the «bushing» casting, manufactured under the conditions of automated foundry production, is monitored. The real possibilities of the existing technological process for providing specified quality requirements to dimensional accuracy are established. The systematic errors are identified and their causes are analyzed. The described procedure, as an example, can be recommended for use in CAD system of foundry production

Keywords: computer-aided design, foundry technologies, casting, dimensional analysis, dimensional accuracy

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DEVELOPMENT OF MATHEMATICAL MODEL OF CELLULAR SUSPENSION FREEZING PROCESS

p. 52-56

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Mathematical modeling of cellular suspension freezing process before freeze drying is considered in this article. Influence of the conditions of technological freezing operation can be evaluated by the distribution of temperatures of the microbial suspension during freezing.

The mathematical model makes it possible to determine the distribution of temperatures during freezing, as well as the freezing rate, depending on the properties of the frozen medium, the conditions for removing heat energy and the geometry of the region in which the process takes place

Keywords: cell suspension, microbial mass, mathematical modeling, freeze drying, temperature, freezing rate

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ANALYSIS OF TYPES OF OSCILLATIONS OF A DOUBLE-FREQUENCY PENDULUM AS OSCILLATION MODEL OF WATER MOLECULES

p. 57-62

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An analysis of the rotational oscillations of the protons of water molecules using a two-frequency pendulum model is made. The parameters showing the change in the type of pendulum oscillations are determined and the diagrams of the regions for different types of oscillations are constructed. The possibility of analyzing the type of vibrations of molecules in water; the boundary of the transition from independent two-frequency oscillations to ellipse-like rotations of protons of molecules near their bond axes in field of intermolecular interaction forces inhomogeneous in angle are shown

Keywords: water molecule, two-frequency pendulum, oscillation type, inhomogeneous field of force

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ANALYSIS OF THE BEHAVIOR OF LOW-MOLECULAR CATIONIC AND HIGH-MOLECULAR ANIONIC SURFACTANTS ON THE INTERFACE OF PHASES «BINARY AQUEOUS SOLUTION – AIR»

p. 63-68

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Specific features of the behavior of hexadecylpyridinium bromide and sodium carboxymethyl cellulose at the interface between solution-air phases at different weight ratios of components in solutions, pH of the medium at a constant concentration of cationic surfactant are studied. The composition of adsorption layers and the parameter of intermolecular interaction of surfactants in them are calculated. Optimal conditions for surface concentration of cationic surfactants are proposed

Keywords: surface properties, binary solutions, hexadecylpyridinium bromide, carboxymethylcellulose sodium salt

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