

## ABSTRACT&amp;REFERENCES

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ANALYSIS OF THE DEVELOPMENT OF «BRICK STYLE», ITS LEADING REPRESENTATIVES  
VICTOR SCHROETER AND JEROME KITNER

p. 6-14

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*The article discusses the history of the origin, development and scope of the “brick style” – one of the directions of nineteenth-century architectural eclecticism, the origins of which go back to the Romanesque and Gothic styles of Western Europe. Since the 1850s, this «style» has been widely used in the architecture of industrial buildings and structures, as well as in educational and medical buildings and in low-rise residential buildings of cities. Most often the civilian engineers and architects of German origin worked in this style. Architects V. Schroeter and J. Kitner contributed to further improving and expanding the possibilities of using the “brick style” in the Russian Empire*

**Keywords:** 19th century eclecticism, historicism of thinking, “brick style”, civil and industrial architecture, modern reconstruction

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#### MATERIAL SUPPORT ORGANIZATION OF THE UNITS OF NATIONAL GUARD OF UKRAINE

p. 14-17

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*The article analyzes the general principles of the organization of material support of military units, which allows to determine the theoretical basis for the formation of a preparatory stock of things for servicemen. A procedure is developed for determining the required number of supplies for the needs of the military units of the National Guard of Ukraine, which creates opportunities for setting the norm of the insurance stock of supplies, depending on the degree of guaranteed provision of military units by specific types of things. The substantiation of the technology of stock valuation of military support units is fulfilled, which provides maximum simplification of the calculations itself and the use of software tools for this purpose*

**Keywords:** material support, military personnel, military units, preparatory stock, things, stock standards

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#### MANAGEMENT OF MATERIAL SUPPLY OF MILITARY UNITS OF THE NATIONAL GUARD OF UKRAINE

p. 17-20

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*The article analyzes the main functions of the management of material support of the military units of the National Guard of Ukraine, which makes it possible to outline the key aspects of the command measures to maintaining the proper level of material stocks. The scheme of organization of the material resources supply in the military units of the National Guard of Ukraine, which regulates the organization of the material stocks supply, is explored. The indicators of level of current and insurance reserves of military units are offered, allowing to determine the opti-*

*um size of material reserves of military units of the National Guard of Ukraine*

**Keywords:** *military units, servicemen, material supply, material stocks, supplies, reserve norm*

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**ANALYSIS OF PSYCHOLOGICAL CONDITIONS OF PERCEPTION OF PRESENTATION MATERIAL BY CADETS AND OFFICERS OF THE NATIONAL GUARD OF UKRAINE**

p. 21-24

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*An analysis of the psychological advantages of using a multimedia presentation for officers and cadets of the National Guard of Ukraine is made, which allows to outline the positive aspects of the psychological perception of material for both officers and cadets, and for the teacher. The study of scenarios for the use of presentations in the training of cadets and officers is conducted. This allows the teacher to concentrate on preserving psychological reserves in order to effectively statement of the material. The analysis of evaluation criteria for presentations is carried out, which allows the best psychological perception of diverse information for all psycho types of listeners*  
**Keywords:** *multimedia presentation, National Guard of Ukraine, psychological perception, psychological aspects, cadets*

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**DEVELOPMENT OF THE METHOD FOR ESTABLISHMENT OF THE ELECTRONIC TRAINING PORTAL FOR PREPARATION OF OFFICERS OF THE NATIONAL GUARD OF UKRAINE**

p. 25-28

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*The main sections of the e-learning portals for the training of officers of the National Guard of Ukraine are analyzed, which provides the opportunity to structure the portals. The main advantages and criteria for assessing the quality of the portal of e-learning are studied, which allow to determine the preliminary conditions for the development of a method for creating a portal for e-learning for the training of officers of the National Guard of Ukraine. The method of creating a portal for e-learning for the preparation of officers of the National Guard of Ukraine is formed, which allows to determine the main stages of creating the educational environment via the Internet*

**Keywords:** methodology, National Guard of Ukraine, Internet network, e-learning portal, officers

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**MANAGEMENT OF A HIGH-TECHNOLOGICAL ORGANIZATION BASED ON ANALYSIS OF THE EFFICIENCY OF PERSONNEL POTENTIAL**

p. 29-32

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*In the article the analysis of the initial parameters of the modeling of the management process of the organization is carried out on the basis of the analysis of the efficiency of personnel potential, which allows to identify unused reserves of productivity increase. A step-by-step regression with Backward setup is performed, which allows to calculate the regression parameters. An adequate model of labor productivity is constructed and an economic interpretation of its parameters is made, which allow to create opportunities for using the model to analyze the current reserves of productivity growth*

**Keywords:** human potential, step regression, productivity, high-tech organization, management, efficiency

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#### ANALYSIS OF THE PLANNING OF LABOR ORGANIZING RESOURCES IN POST-INDUSTRIAL ECONOMY

p. 33-35

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*The main options for choosing the method of selecting specialists are analyzed, which allow to outline the possible activities of the organization according to specific relationships between the supply and demand of the workforce. The possible measures of personnel policy of the organization in the conditions of the information economy are investigated, which makes it possible to determine the activities of the organization to resolve the “demand higher than the offer” situation. The peculiarities of implementation of the program of work of organizations in the field of labor resources in the conditions of postindustrial society is analyzed, which allows to evaluate the possible results from training and involvement of specialists*

**Keywords:** labor resource planning, organization, post-industrial economy, personnel policy, personnel management

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#### SOLUTION OF CREATIVE DESIGN OF ARTISTIC AND DECORATIVE FORM DEPENDING ON THE USED MATERIALS

p. 36-39

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*The article raises question of problem relevance of solution of the creative intention of the composition of artistic and decorative forms in the color space of the interior space, depending on the used materials. With the help of the performed analysis, the basic principles are determined and the structure is proposed, which can also be an instrument in the work of the artist-designer; which allows to approach the solution of the set creative task with great professionalism*

**Keywords:** creative design, artistic and decorative form, coloristics, material, art and design, interior space

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**ANALYSIS OF OPPORTUNITIES PYTHON PROGRAM LANGUAGE FOR WORKING WITH SPATIAL DATA**

p. 40-46

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*In the article an analysis of the tasks for use of modern software to support work with spatial data is done. Op-*

*portunities of Python programming language are analyzed for working with this spatial data.*

*Based on features this programming language and already existing ArcGIS and ArcPy spatial data processing software Python features are analyzed in this region*

**Keywords:** Python, ArcGIS, ArcPy, programming, spatial, data, analysis, model

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**ANALYSIS OF THE USE OF MULTIMEDIA COMPONENTS IN MODERN MOBILE LEARNING TECHNOLOGIES**

p. 46-50

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*The article analyzes the pedagogical conditions of the implementation of mobile learning, which allows to optimize the learning process in open distance education. The algorithm of creation of high-quality infographics for mobile learning is developed, which provides an opportunity for the formation of sensitive content for users. Methodical recommendations for ensuring the quality of the use of web-based multimedia resources of mobile learning systems are developed, on the basis of which the opportunity to increase the productivity of the learning process is provided*

**Keywords:** mobile learning, technology, multimedia components, infographics, responsive content, multimedia resources

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### THE METHOD OF JOINT DEFINITION OF SMALL ARMS RATIONAL BALLISTIC CHARACTERISTICS AND THE STRIKING ELEMENT CONSTRUCTIVE CHARACTERISTICS FOR THE MODEL OF SMALL ARMS OF THE SECURITY FORCES

p. 51-54

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*The method of joint definition of small arms rational ballistic characteristics and the striking element constructive characteristics for the model of small arms of the security forces is developed.*

*The method allows to determine the ballistic characteristics of the small arms sample and the striking element mechanical properties that provide sufficient energy characteristics of the striking element when meeting the target on distances including the aiming distances, the safe values of its kinetic and specific energy after reflection from the obstacle, as well as the minimum range of slaughter action on distances larger than the aiming distances*

**Keywords:** small arms, safety of weapons use, ricochet, conditional recovery factor, energy characteristics

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**POSSIBILITIES OF ENHANCEMENT OF THE STRENGTH AND DURABILITY OF EPOXY COMPOSITES BY SILICON CARBIDE AND TITANIUM NITRIDE FILLING**

p. 55-59

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*Composites based on ED20+PEPA resin with filling of SiC, TiN microparticles and their mixtures with cement are studied. The possibilities for a significant increase in microhardness – 1.5-2 times, modulus at bending (1.4–1.7 times), compressive strength (for SiC), abrasion resistance and chemical resistance (in nitric acid and acetone/ethyl acetate) are revealed. At the same time, the fire resistance of the compositions and their strength properties significantly increases*

**Keywords:** epoxy composite, strength, microhardness, heat resistance, diagrams, swelling in acetone, nitric acid, shrinkage

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