

SUMMARY

UDC 684

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ERGONOMICS IN THE DESIGN OF KITCHEN FURNITURE

The aim of the study is to trace the evolution of kitchen furniture design and its relationship with science and technology based on basic concepts of proportions, plastic anatomy and ergonomics, as well as forecasting of the development of kitchen sets. The interrelation of modern kitchen furniture design with ergonomics, psychology and navigation.

Keywords: kitchen design, ergonomics, anthropometry, psychology, sat NAV.

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UDC 744 (075.8)

I. B. Abbasov

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CONCEPTUAL MODEL OF DECORATIVE LIGHT FIXTURE "ORCHID"

This paper discusses the conceptual modeling the decorative table light fixture in the form of the orchid flower. In

this detailed questions create realistic materials based on different textures. Are presented the main stages of modeling the components of the flower On the next stage, in order to impart reality, omni directional and pointed light sources are created and installed.

Keywords: computational materials, material simulation, decorative light fixture, orchid flower, methods of shading.

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T. S. Beketova, E. A. Emanova

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ETHNIC-CULTURAL COMPONENT OF SOCIAL ADVERTISEMENT DESIGN AS OPPOSITION PROPAGANDA IDEOLOGY OF EXTREMISM

Social advertisement, which was developed, is a means of counter-propaganda ideology of extremism among young people, its concept — the opposition caricature of the terrorist idea and Friendship of Peoples. To express the idea and emphasize the characters belonging to different ethnic groups has allowed the use of images of women's hats Tatar, Buryat and Russian ethnic groups.

Keywords: ethnic-cultural component, national hat, social advertisement, antiterrorism, antiextremism, animation clip.

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UDC 7.036

T. Ju. Chuzhanova, V. V. Egorkina

Saint-Petersburg State University of Industrial Technology and Design

DESIGN OF SCENERY IN PRODUCTIONS OF RUSSIAN SEASONS IN PARIS

The article examines the designer made the first Russian ballet seasons in Paris on the example of productions, "Le Pavillon d'Armide" (artist Benoit), "Scheherazade" (artist Bakst).

Keywords: scenery design, Scheherazade, Armida's Pavilion, Russian seasons, Benoit, Bakst.

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UDC 67.03

K. S. Ponomareva, L. T. Zhukova

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NATURAL AND ARTIFICIAL AGATE IN JEWELRY, ART PRODUCTS AND CLOTHING ACCESSORIES

The article tells about most common varieties of natural agate; possibility of the replacement of the original stone with imitational materials and counterfeits; use of imitational agate in art objects and jewelry.

Keywords: design, stone, agate, imitation, jewelry, clothing accessories, counterfeit.

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PECULIARITIES OF PRODUCTION OF GLASS DISH SET WITH USE OF TECHNOLOGIES OF CREATION OF PRE-FUSIONS

This work by example of glass dish set estimates possibility of production of volume articles of complex glass design with use of pre-fusion and its further slumping on the form without an external action. The author offers an optimal time-temperature mode of fusing with the schedule and explanations and gives recommendations on the technological process of formation. Keywords: glass design, kilnforming process, combined technology, kilnformed glass, fusing, slumping, moulding, pre-fusions.

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TECHNOLOGIES OF CREATION OF THE FORM AND IMAGES IN DESIGN OBJECTS VARIOUS POWERFUL PULSE OPTICAL QUANTUM GENERATORS IN METAL AND DIELECTRIC, FRAGILE, TRANSPARENT SYSTEMS

Work is devoted to a research of methods of creation of images on metal surfaces and inside optically transparent firm environments by their laser handling during creation of decorative and art images in the transparent firm environment, production of souvenirs and other similar products.

Keywords: fiber and solid-state optical quantum generators, cutting of materials, microexplosions, transparent dielectrics, colored oxidic films, design.

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HIGH-TECH FLAX-CONTAINING MATERIALS FOR MEDICINE, HYGIENE AND COSMETOLOGY

The possibility of obtaining new original structures of nonwoven cloth based on highly sorption flax fibers with special properties for medical, hygienic and cosmetic purposes products was shown.

Keywords: flax fiber, nonwoven fabrics, cosmetology, hygiene, atravmatichnost, antimikrobnost.

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UDC 687.174

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DESIGN AND TESTING OF SPECIAL SPORTS SHORTS FOR CLASSES MAS-WRESTLING

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The article substantiates the necessity of development of special shorts (panties) for Mas-wrestling. Reveals the sequence of form development for this sport and there are 2 version of the shorts (panties), which will allow to solve the following problem — creation of the original products corresponding to requirements of rules of Mas-wrestling, while also highlighting the product on the market and to expand the range of similar products to better meet consumer demand, thereby involving the masses in sport.

Keywords: mas-wrestling, sports shorts.

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UDC 666/29

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BLIND EMBOSSED AS AN ELEMENT OF BOOK DESIGN

The article describes blind embossing as a professional after printing processing of the book improving the quality of printing and making it a finished product. Glazing as a new step of finishing processing allows to make blind embossed parts more impressive.

Keywords: blind embossing, book binding design, leather embossing, paper embossing, tinting, glazing.

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UDC 687.076:66.014

A. A. Bikbulatova¹, S. S. Borisevich², E. G. Andreeva³¹ Department Art and artistic creation of «Russian State Social University»² The Laboratory of Chemical Physics «Ufa Institute of Chemistry of Russian Academy of Sciences»³ Moscow State University of Design and Technology**WORKING OUT A COMPOSITE MATERIAL FOR CURATIVE CLOTHES PRODUCTION**

This article is devoted to the technology of working out composite material on the basis of methyl methacrylic resin reinforced with knitted fabric. The material can be used for tailoring curative clothes, such as school uniforms. The resulting composite was tested for compliance by two parameters: the flexural rigidity value and possible permanent deformation.

Keywords: textile, rehabilitation, clothes, composite, polymer.

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UDC 687.175

D. S. Kokina, O. N. Kharlova, E. G. Andreeva, O. G. Semenov

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TECHNIQUE OF THE CHOICE OF THE COLORISTIC DECISION OF CLOTHES OF EMPLOYEES OF GROUP OF THE SPECIAL PURPOSE ON THE BASIS OF THE ANALYSIS OF "THE COLOR ATMOSPHERE" OF ENVIRONMENT

The choice technique of "the color atmosphere" of textile material for uniform consists in the following: on the basis of the image of the district the option of a coloring of a camouflage which colors correspond to flowers of the chosen district is developed. The developed technique will allow to raise protective characteristics of uniform considerably.

Keywords: camouflage, coloristic decision, technique, color combination, coloring.

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**V. L. Zhukov, M. V. Nikitina,
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PRESENTED HYBRID VISUAL COGNITIVE INFORMATION DYNAMIC OBJECT SYSTEM DESIGN-ELECTRONIC AND ELECTRICAL DEVICES TO ENHANCE BIO-SENSORY PERCEPTION OF SOUND FREQUENCY RANGE OF ELECTROMAGNETIC OSCILLATIONS

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The article is devoted to contemporary jewellery as an upgrade in design planning and forecasting. As a cognitive model of the proposed design system-bio and information convergence in the mechanisms of adaptation-the sensuous physical attitude as evaluation and measurement-electronic products, allowing you to design a new product possessing characteristics, system components through hybridization

Keywords: stylish jewelry, design, Futurology, micro-electronics, nanotechnology, cognitive information dynamic system (VKIDS), medical engineering.

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THE PROBLEM OF CORRELATION SURFACES OF METAL AND STONE COLORED MATERIALS IN THE DESIGN OF JEWELRY

The principal theses of the materials visual perception (conjunction of metal-stone) are represented in dependence of their functional signification.

The technological data about color contrast obtaining and relief texture of metal and semiprecious material in the design of jewelry are state.

During the research of perception texture relieve dependence was used a method that allowed to determine Rm parameter value. It divides texture on straight smooth, straight rough and relief. The data of relief texture perception with numerical value of estimated surfaces parameter is shown.

The influence of material physical properties on the perception of relief texture was detected: the nature of the surface luster, color characteristic of the conjunction of metal-stone, the influence of roughness amount on inserts of stone color parameters, that mute the basic color or make contrast with it. Factors that have influence on the specific nature of surfaces light reflection and contrast were marked out.

The recommendations for further research of jewelry technique materials surfaces visitation in the process of designing are set out.

Keywords: the research, design, designing, visitation, metal and semiprecious materials, jewelry, the perception of materials surfaces, color combination of materials surfaces, structure and texture, relief of texture, contrast.

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**THE MAIN COMPONENTS
OF FIGURATIVE LANGUAGE
OF COPPER PLASTICITY
ON THE EXAMPLE
OF THE ZLATOUST COLLECTION**

A collection of Zlatoust collection copper sculpture is of great historical and artistic value. Part of it — copper molding that covers the chronological range (XVIII–XIX centuries) and has more than fifty items. Studies collections allow write another page in the history of art casting copper and clarify previously made the attribution of the monuments that circle.

Keywords: Urals, copper art casting, Old Believers, Zlatoust weapon factory.

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**COMPUTER PREDICTION
VISCOELASTIC MATERIALS
PROCESSES ARAMID**

The methods of computer prediction of viscoelastic processes aramid materials. Computerization forecasting techniques viscoelasticity aramid materials based on mathematical modeling of deformation properties inseparably linked with the solution of problems on the comparative analysis of the properties of materials, studies of the relationship with the properties of the structure, with a purposeful process control features, as well as to the prediction of short-term and long-term mechanical stress.

Keywords: aramid materials, viscoelasticity, deformation processes, mathematical modeling, systems analysis, computer prediction.

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METHODOLOGY OF THE INCREMENTAL DEVELOPMENT OF DIGITAL GAME ENVIRONMENT WITH AN ALLOWANCE FOR THE FUNCTIONALITY OF MODERN GAME PROJECTS

The given article presents an attempt to develop methodological principles of ergonomic digital environment design possessing excellent consumptive qualities based on the clear understanding of the goals, objectives and fundamentals of modern game design. Firstly, main stages of game project development correlated with the project conception of game design constituents such as game mechanics, story, visuals and technology are singled out. The development of each of these components is carried out while taking into consideration current ergonomical requirements as well as the friendliness of digital environment based on such factors as the preferences and expectations of the target audience of a given project, demographic and psychological determinants, which have a considerable influence

on the psychological and emotional state of a user during play activities. The scientific novelty of the present article lies in the absence of a well-developed methodology within this branch. The practical importance results from the possibility of the implementation of the given methodology in the process of development of competitive and possessing considerable artistic and aesthetic value game projects.

Keywords: game design, anthropotechnics in digital game environment, incremental approach, level design, friendliness of digital environment, emergent gameplay, iterative design.

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STAGES OF GAME PROJECT DEVELOPMENT WITHIN THE FRAMEWORK OF GAME DESIGN AS A PROJECTING DISCIPLINE

The present article deals with the main stages of the development of game projects for different gaming platforms from the standpoint of game design within the framework of the projecting culture. These stages are singled out on the basis of studying, analyzing and systematizing of data contained in the theoretical works of leading Russian and foreign specialists in the field of media and digital design, art history and ludology, as well as taking into account practical experience of practicing game designers. The scientific novelty of the present article lies in the absence of well-developed procedures within this constantly advancing discipline. The practical importance results from the possible implementation of the stepwise approach to eliminate or minimize labor and time costs as well as financial risks in the development process.

Keywords: gameplay, level, target audience, interface, location, game industry, design document, setting, non player character, mechanics.

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