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THE SYMBOLISM OF MEMPHIS AND HELIOPOLIS IN THE IMAGE OF THE «ENNEAD OF ATUM — NUN» PARYURA

Not only fiction has come down to us from ancient Egypt, but also many works of a scientific nature. This system of creative visual-

symbolic thinking left a noticeable mark on the religion of all subsequent millennia, and its expression in numerous small isolated local cults really remained the most characteristic iconic feature of the Egyptian religion in its entire history, which found its continuation in the images of the subject area of design objects in this work, presented by the parure «Enneada Atuma — Nuna».

Keywords: ontological and semiotic reality, semantic network, subject area of design objects, jewelry art, historicism of Egyptian culture, NBICS-convergence

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UDC 7.02

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RESEARCH OF MYTHOLOGICAL IMAGES OF CULTURAL HERITAGE IN THE ANCIENT TRADITIONS OF THE CELTS OF IRELAND AND WALES IN THE ORGANIZATION OF MODERN HUMAN LIVING SPACE — INTERIOR «CAMELOT»

The purpose of this work is to study the medieval mythological systems of Europe and create a relevant image of the interior with a recursive connection in the eclecticism of the plots of biblical and Celtic legends and sagas that define the cultural code, signs, cognitive-mental maps of images with subsequent possibilities of storing and transmitting information, especially in the field of semiotics of plastic arts and design theory, as constantly evolving paradigms cultures of global civilizations.

Keywords: design, interior, semantic networks, cognitive technologies, metaphorical and tabular modeling

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THE INFLUENCE OF THE INFORMATION-ILLUSORY SYSTEM ON THE ART AND DESIGN OF JEWELRY

Optical illusions in fine art and jewelry design in the modern world are investigated. The design of the steam room has been developed, in the outlines of which you can see the illusory image of an hourglass.
Keywords: optical illusion; image; fine art; jewelry; image.

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UDC 7.05

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ANALYSIS OF ART DESIGN TOOLS AND METHODS IN CREATING A MODERN COSTUME IN THE «RUSSIAN STYLE»

In the presented article, the author analyzed some of the means and methods of art design in the context of contemporary art and design. The author also argues that the existing criteria for evaluating a work of art design are somewhat blurred, which makes it possible to refer to the study of art design as an actual phenomenon. Also in the article, an algorithm was developed that reflects the processes of creating a design product (using the example of a modern suit in the «Russian style»).

Keywords: art design, «Russian style», image, project activity, creativity, tradition, idea

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NATURAL MATERIAL TEXTURES WITHIN COGNITIVE TECHNOLOGIES OF ANTHROPOLOGICAL DESIGN

The article is dedicated to examining the process of texture creating by means of cognitive technologies and feasibility of usage of natural material textures in creating objects of anthropological design.

Keywords: anthropological design, texture, cognitive technologies, natural materials

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FINNO-UGRIAN HERITAGE IN THE WORK OF MODERN MASTERS OF THE NORTH-WEST OF RUSSIA. MODERN PRODUCT DESIGN

The research examines the transformation of traditional elements of decorative and applied art of the Finno-Ugric peoples of the XIX–XX centuries. in the work of contemporary designers. The analysis of the specifics of the decorative and applied art of the Finno-Ugric peoples is carried out.

Keywords: arts and crafts, design, Finno-Ugric people

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THE PHENOMENON OF LIGHT IN THE CONTEXT OF POSTMODERN CULTURE

The article discusses the change in the approach to the formation of the light environment and the attitude to the phenomenon of light transformed by man. Within the framework of the article, no differentiation is made between the forms of working with light, the accents are built regardless of technology, the focus of the study is the change in the ethical paradigm, the departure from the modernist model to the postmodernist one.

Keywords: lighting design, postmodernism, contemporary art, ethics, modernism, science and art, 3D mapping, light projection

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SOME FEATURES OF COSTUME TRANSFORMATION IN HISTORICAL PERIODS

In the presented article, the author analyzed some features of the system of transformation in clothing, from the ancient period to the Newest time. The author points out that the principle of costume transformation in different historical periods made it possible to create multifunctional clothing and a movable structure. At the same time, the principle of transformation influenced the creation and regulation of shapes and volumes in clothing, as well as the fastening system. The author believes that the study of the system of transformation in a historical costume can become an inexhaustible source of inspiration and creative search for young designers.

Keywords: transformation, design, upholstery, hematium, toga, cloak, corsage, overcoat

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EFFECT OF POLARITY PARAMETERS OF APROTIC SOLVENTS ON THE SOLVATOCHROMIC EFFECT OF 6-NITRO-1',3',3'-TRIMETHYLSPIRO[2H-1-BENZOPYRAN-2,2'-INDOLINE]

The dye 6-nitro-1',3',3'-trimethylspiro[2H-1-benzopyran-2,2'-indoline] was synthesized and the optical properties of its solutions in aprotic solvents were studied. Based on the analysis of experimental data, it was shown that the excitation energy of 6-nitro-1',3',3'-trimethylspiro[2H-1-benzopyran-2,2'-indoline] in aprotic solvents, and, accordingly, the color of the solution, correlate with values of the dipole moment of the solvent, as well as with the donor and acceptor numbers. The correlation with the permittivity of the solvent is less pronounced; no correlation with the viscosity of the solvent was found. The optical properties of solutions of 6-nitro-1',3',3'-trimethylspiro[2H-1-benzopyran-2,2'-indoline] in binary solvents depend on the composition of the mixture.

Keywords: solvatochromic effect, spiroopyran, excitation energy, binary solvent

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THE USE OF QUATERNARY AMMONIUM SALTS IN THE PROCESSING OF POLYPROPYLENE FIBER

The article presents an analysis of research in the field of thermocatalytic destruction of polypropylene for the purpose of its processing into fuel. Experimental data are presented showing that modification of polypropylene fiber with tetraalkylammonium bromide containing a long hydrocarbon radical in its structure leads to decrease in the temperature of polymer phase transitions, the degree of polymerization and the production of 50% higher paraffins as a result of hydrocracking.

Keywords: hydrocracking, trimethylcethylammonium bromide, benzyldimethylcethylammonium bromide, thermocatalytic destruction

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UDC 687

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DESIGNING A MIRROR COMBINATION OF THE FABRIC PATTERN IN A STRIP OR A CAGE ON THE SIDE SEAMS OF CLOTHES

The variety of obtaining the «mirror angle» effect on the side seams of clothes made of striped/checked materials and the features of entering the obtained values when filling in the design details with hatching corresponding to the fabric pattern are presented.

Keywords: striped or plaid fabrics, structural modeling, fabric pattern connection effects

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POSSIBILITIES OF APPLICATION OF DIGITAL INSTRUMENTS IN THE PROCESS OF ART PRODUCTS DESIGN

The article considers one of the ways to use digital tools in the process of product design at the stages of creating an artistic image and searching for an artistic solution.

Keywords: artistic image, creation, design, neural network

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UDC 687

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VARIETIES OF GEOMETRIC CONSTRUCTIONS IN THE DESIGN OF CLOTHES FROM FABRICS WITH A COMPLEX RAPPORT

The article discusses the variety of geometric techniques when creating model designs of products with raglan and one-piece sleeves to obtain a combination of the pattern of the material on the upper and lower seams of the sleeve of clothing made of striped or checked materials.

Keywords: striped or plaid materials, joining the fabric pattern at the seams

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UDC 7.022

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INVESTIGATION OF THE PROCESS OF GRINDING FLAT GLASS INTO A VACUUM MOLD

The analysis of the principles of vacuum bending of flat glass is carried out. The influence of technological factors (temperature, discharge) on the process of mellation has been studied. The optimal values of t

he technological parameters of the malling process for obtaining malled glass of specified sizes have been determined

Keywords: vacuum molling, glasses, process optimization

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DEVELOPMENT OF COMPOSITE COATING FOR DESIGN OBJECTS MADE OF ALUMINUM AND ITS ALLOYS WITH HIGH AESTHETIC PROPERTIES

The structure of the composite coating is proposed, its physical, mechanical and aesthetic properties are investigated

Keywords: design, coatings, aluminum, aluminum alloys

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TESTING AN EDUCATIONAL GAME FOR CHILDREN AND ADULTS WITH DISABILITIES USING ELEMENTS OF AN EMPATHY SUIT.

The article describes the approbation of a board educational game based on the Latin square, proposed for use not only in healthy children, but also people of different ages with disabilities. Elements of an empathy suit were used to test the speed of completing a game task on group of students. As a result of the experiment, the aim of the work was to determine the need for possible modifications of the game and the development of additional facilitating conditions for the game task for visually impaired people.

Keywords: testing educational game, visually handicapped persons, empathy suit, game modification

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UDC 7.02

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RESEARCH OF THE RECURSIVENESS OF JAPANESE ART IN THE SYSTEMS OF INTERIOR SOLUTIONS OF THE «BOTAN KARAKUSA» BOUDOIR FUNCTIONAL ZONES OF USABILITY BY THE LINGUISTIC–COMBINATORIAL METHOD IN THE NARRATIVE OF HAIKU MATSUO BASHO AND BUNDZINGNANG STYLE WITH SUIBO-KU PLASTICITY OF THE CATEGORY GENRE

Studies were conducted on the design of dominant modules of images of design objects that create a universal information and energy load of the functional dependence of metaphorical modeling of space with a composition based on the work of Matsuo Basho, presented in conjunction with LUS, as pieces of furniture, decorative panels and stylistic accessories for the interior of a salon, bedroom, toilet room.

Keywords: interior, hybridization, subject area of images of design objects, transformer lamp, mirror, cosmetic kit, haiku, suibo-ku, versatility

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AUTHOR'S APPROACH TO THE PROCESSING OF INSERTS FROM HIGHLY FLATTENED ROUGH DIAMONDS

The paper presents a comparative analysis of the indicators of the yield of suitable from rough diamonds, strongly flattened by L3 and the currency efficiency coefficient

Keywords: rough diamonds, yield of suitable, currency efficiency coefficient

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REVIEW OF METHODS FOR DESIGNING VIRTUAL MODELS OF CLOTHING AND HUMAN BEINGS FOR THE STUDY OF CLIMATE IMPACTS

This article presents an overview study of the state of the problem of creating virtual models of the human body in clothes for static and dynamic simulation in order to predict the thermal state of a person. As a result of the consideration of modern approaches for testing the man-clothing system using computer modeling, the authors proposed a virtual climatic polygon for the study and prediction of heat-protective properties of clothing.

Keywords: virtual human, climate simulation, human thermoregulation, heat-protective clothing, underclothing layers of materials

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DESIGNING JEWELRY USING GENERATIVE DESIGN ALGORITHMS

The article discusses the use of generative design algorithms in the design of jewelry. The main design stages using generative design techniques are listed. It is shown that the rules and principles of the golden section can be used as the basis for design requirements when using the algorithmic tools of the Grasshopper plugin, since they are described by mathematical formulas. On the example of specific jewelry, which is made according to the generally accepted industrial technology for manufacturing jewelry, the possibility of using algorithmic tools is shown.

Keywords: jewelry design, jewelry, golden ratio, algorithmic tool, generative design

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