

Original article

ON-VERBAL LANGUAGE OF THE UNIFORM AND THE PROBLEM OF ITS SEMINAL AMBIGUITY

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Abstract. The paper considers design methods for creating a symbolic language of a corporate uniform to reflect the values of corporate culture. The reasons for the distortion of the non-verbal message of the corporation in the external and internal socio-cultural environment are established.

Keywords: dress code, gestalt, ambivalence, requirements, design, design methods

For citation: Denisova O. I. Non-verbal language of the uniform and the problem of its seminal ambiguity. *Design. Materials. Technology.* 2023;(1(69):9–14. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_9_14.

Original article

IMAGES AND SYMBOLS ON GRINGSING FABRIC MOTIFS

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Abstract. The article examines the symbols on the motifs of the Indonesian Gringsing fabric. The purpose of the article is to analyze the philosophy of the village of Tenganan Pagringsingan and identify the symbols that are most often used in the motifs of the gringsing fabric, as well as to identify their semantics. Objectives of the article: to give qualitative characteristics of the gringsing fabric (weaving method, fabric color, etc.), to consider the most popular symbols on the motives of the gringsing fabric, and, based on the philosophy and religious outlook of the inhabitants of the village of Tenganan Pagringsingan, to identify their semantics. As a result of the study, it was revealed that all the motifs on the gringsing fabric are associated with the philosophy and religion of the local villagers Bali-Aga. The values of the colors of the fabric are considered, the most popular symbols used on the motifs of the gringsing fabric are revealed. A brief description of these symbols is given.

Keywords: gringsing, double ikat, Tenganan Pagringsingan, textiles of Indonesia

For citation: Ryzhkova A. D., Kazakova N. Yu. Images and symbols on gringsing fabric motifs. *Design. Materials. Technology.* 2023; (1(69)):15–18. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_15_18.

Original article

TIMES ARE INTERTWINED. HISTORY AND MODERNITY OF ZAKHOZHISKY LACE

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Abstract. The topical problems of preservation of the ethno-cultural heritage of the Leningrad region are investigated. The focus of the study is Zakhozhsy lace, which originated in the 19th century on the territory of the Kirishi region. The collection and generalization of information on the history of the trade was carried out, data on the current state of affairs were collected, the main centers of its conservation in the city of Kirishi were identified, the memories of craftswomen, descendants of lacemakers, keepers of the tradition were collected and recorded.

Keywords: artistic textiles, history of lace making, Russian bobbin lace, folk crafts, tradition

For citation: Mitrofanova N. Yu. Times are intertwined. History and modernity of Zakhozhsy lace. *Design. Materials. Technology.* 2023;(1(69)):19–24. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_19_24.

Original article

HISTORY AND RESTORATION OF MALE MILITARY KAFTANS OF THE 18th CENTURY

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Abstract. The props of the funds of film studios and theaters, despite their fake origin, also need to be preserved, because in addition to reuse, as they are used, each item is «overgrown» with history and becomes part of the cultural heritage. This work shows how props can follow historical fashion and what restoration methods can be used when working with kaftans depicting military uniforms from the 18th century.

Keywords: restoration of textiles, tinting, color selection, metal fittings, woolen cloth, kaftan

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Original article

ABERRATIONS OF OPTICAL SYSTEMS AS A MEANS OF CREATING ARTISTIC EFFECTS

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Abstract. Lens aberrations are considered as a source of means of expression in the visual arts. It is shown that the imperfection of human vision is one of the reasons for the aesthetic appeal of a technical non-ideal image and is due to the same aberrations as the imperfection of optical devices. Relationships between certain lens aberrations and artistic effects realized with their help, as well as aspects of their application in the creative process, have been established.

Keywords: pictorial art, art, optics, aberrations, artistic effects

For citation: Zhukova I. T., Maltsev S. V., Eshmakov R. S. Aberrations of optical systems as a means of creating artistic effects. Design. Materials. Technology. 2023;(1(69)):33–42. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_33_42.

Original article

THE DESIGN OF COLOR IN THE SYSTEM OF THE SUBJECT-SPATIAL ENVIRONMENT

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Abstract. The article deals with the artistic method of dominance of the color environment, mastered by the students of Sochi State University, which forms the color framework of the object-spatial environment of the resort city of Sochi. The results of the study are presented on the example of the design results of student research, coloristic environment formation, including the development of: shock-absorbing coatings for the sports area, facades of the student hostel building, recreational areas of the Sochi State University hostel.

Keywords: design, color environment formation, artistic method, color environment

For citation: Piirainen V. Yu., Kiriyyenko I. P. T. O. Makhova, Tabak L. V., Zavarzova K. Yu. The design of color in the system of the subject-spatial environment. Design. Materials. Technology. 2023;(1(69)):43–52. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_43_52.

Original article

DEVELOPMENT OF THE IMAGE-DESIGN OF THE DOMINANT MODULE OF THE STUDY AREA OF THE INTERIOR «CONFUCIUS» IN THE NARRATIVE OF JAPANESE ART

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Abstract. This work is a study of the images of mythology in the narrative of Japanese art. The semiotics of the plastic arts of Japanese culture, combined with the historically significant construction of the teachings of Confucius, served as a morphological, coloristic and philosophical basis for creating the dominant interior module — the desktop.

Keywords: design, Japanese mythology, cognitive map, desktop, Confucius

For citation: Zhukov V. L., Smirnova A. M., Mak N. N. Development of the image-design of the dominant module of the study area of the interior «Confucius» in the narrative of Japanese art. Design. Materials. Technology. 2023;(1(69)):53–62. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_53_62.

Original article

THE PHENOMENON OF VISUAL CULTURE OF MODERN SOCIETY IN THE EVOLUTION OF GRAPHIC DESIGN

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Abstract. In the article is seen the modern visual culture related to the field of graphic design. The analysis and characteristics of the prerequisites for the emergence of the phenomenon of artistic and graphic images of our time, their problems and main trends in the culture of visual images today are presented. The problems of visual and word pictures are designated in the historical context of the development of design and in the context of design-education.

Keywords: visual culture; graphic design; visual communications; word picture; media sphere; society

For citation: Sadanova V. I., Prosetskaya V. V., Goy M. V. The phenomenon of visual culture of modern society in the evolution of graphic design. Design. Materials. Technology. 2023;(1(69)):63–67. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_63_67.

Original article

AESTHETICS OF GLASS PRODUCTS PRODUCED BY BENDING ON A PUNCH

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Abstract. There are studied workpiece shapes and dimensions influence on the aesthetic properties of glass products. We use single sheet glass with round, square and triangular shape for the artistic glass products manufacture. The features of their shaping, style and the possibility of using them in the interior are considered.

Keywords: molding, bending, glass products, folds

For citation: Chernykh M. M., Zagoruiko A. A. Aesthetics of glass products produced by bending on a punch. Design. Materials. Technology. 2023;(1(69)68_73. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_68_73.

Original article

NON-VERBAL COMMUNICATION TECHNIQUES IN JEWELRY DESIGN

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Abstract. The article discusses the methods of non-verbal communication in jewelry design. A typology of citations is presented, typical methods of citations are listed. Specific examples describe the typology of citation (explicit/formal citation, composite citation, and associative-figurative citation). It is especially important that examples of jewelry made by well-known companies and jewelry authors, as well as within the framework of student design, were selected for analysis. All jewelries are made according to the generally accepted industrial technology for the manufacture of jewelry.

Keywords: jewelry design, jewelry, citation

For citation: Gruzdeva I. A., Denisova E. V., Kaukina O. V., Shipitsina Z. S. Non-verbal communication techniques in jewelry design. Design. Materials. Technology. 2023;(1(69)):74–81. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_74_81.

Original article

DESIGN OF CERAMIC SET OF DISHES IN ETHNIC STYLE

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Abstract. The article describes the ethnic style of culture of the khakass people. The design solution for creating ceramic utensils is considered in detail. The main colors were analyzed and a complex coloristic scale of the nature of Khakassia was chosen

Keywords: Ceramics, ethnic style, yurt, compositional solution, color, dishes

For citation: Shepovalova L. A., Kaposhko I. A., Berezyuk V. G., Lytkina S. I. Design of ceramic set of dishes in ethnic style. Design. Materials. Technology. 2023;(1(69)):82–88. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_82_88.

Original article

DEVELOPMENT OF THE BIONIC LAMP PROTOTYPE BY USING TOPOLOGY OPTIMIZATION

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Abstract. The paper presents the development of a bionic lamp using software for topology optimization, strength tests and post-processing of the surface of the resulting model. The calculation data, the optimization pattern search algorithm, the selection of technology and material for 3D printing of the prototype were described and a brief comparative analysis of the solid and bionic structure of the lamp was presented.

Keywords: topology optimization, additive manufacturing, art casting, generative design, bionic design

For citation: Bityutskiy A. D., Ivleva L. P. Developmet of the bionic lamp prototype by using topology optimization. *Design. Materials. Technology.* 2023;(1(69)):89–95. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_89_95.

Original article

FANCY GLASS. FLAT BENDING OF DECORATIVE VASES

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Abstract. There was discussed bending of decorative flower-shaped vases. We used seven types for the blanks shape. The blanks consisted of 4–5 petals and a central element with a square or round shape. We determined the influence of the petals and the central element geometry on the bending process and aesthetics properties of the product

Keywords: fancy glass, flat bending, shape, decorative vase

For citation: Chernykh M. M., Zagoruiko A. A. Fance glass. Flat bending of decorative vasws. *Design. Materials. Technology.* 2023;(1(69)):96–101. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_96_101.

Original article

ART-OBJECT: FROM LIGHTING FIXTURE TO LIGHTING INSTALLATION, INSTALLATION AND PERFORMANCE

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Abstract. This article discusses the features of creating and exhibiting lighting devices as art objects from lighting installations in interior and street design to complex spatial installations

that fit into performance promotions. art objects, the experience of famous world designers is being studied. The differences between light sculpture, installation, performance and art object are being clarified. The principles of the representation of lighting devices as art objects are clarified based on the study of the creative method of leading modern designers. Modern approaches to the organization of space with the help of light art objects are studied.

Keywords: art object, lighting device, installation, performance, design, sculpture

For citation: Druzhinkina N. G. Art object: from lighting fixture to lighting installation, installation and performance. Design. Materials. Technology. 2023;(1(69):102–109. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_102_109.

Original article

PATTERNS OF FAUNA TECHNIQUES OF MARTIAL ARTS SCHOOLS OF KUNG FU AND SHAOLIN KARATE IN THE METAPHOR OF ARTISTIC IMAGES OF JEWELRY PARURE «WING CHUN»

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Abstract. One of the characteristic and distinctive features of the end of the second and the beginning of the third millennium is the interpenetration and assimilation of cultures that were formed and for most of their history existed in isolation from each other. Rapidly developing scientific research in the theory of fine arts and design has a significant impact on cognitive technologies and metaphorical modeling, taking into account all the nuances of the cultural environment in which artistic images are formed. One of the main components of the cultural tradition of China are martial arts, which, as metaphors for artistic images of jewelry, embody a set of worldview views and beliefs that determine the modern spiritual life of society.

Keywords: visual-symbolic cognitive information dynamic systems with locally stable structures, design, jewelry, pattern, kung fu, karate, wing chun, Shaolin, China

For citation: Zhukov V. L., Kuznetsova E. D. Patterns of fauna technicians of martial arts schools of kung fu and Shaolin karate in the metaphor of artistic images of jewelry parure «Wing chun». Design. Materials. Technology. 2023;(1(69)):110–123. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_110_123.

Original article

TECHNOLOGY OF MANUFACTURING OF GYPSUM MOLDS ON A FULL-COLOR POWDER 3D PRINTER

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Abstract. The paper briefly highlights the manufacturing technologies of gypsum molds for the manufacture of ceramic products. The technology of manufacturing ceramic products by new methods is described in detail: computeraided design (CAD) and manufacturing (CAM).

Keywords: ceramics, model, gypsum mold, printer, system, 3D technology, three-dimensional printing

For citation: Boyko Yu. A., Lobach D. I., Livshits V. B. Technology of manufacturing gypsum molds on a full-color powder 3D printer. *Design. Materials. Technology.* 2023;(1(69)): 124–127 (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_124_127.

Original article

STUDY OF SAMPLES OF APPLIED OPAL GLASS

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Abstract. Due to the need to introduce new compositions of opal glasses into the work of the existing glass production, studies were conducted on the connection of synthesized opal glasses with glasses of other chemical composition.

Keywords: glass synthesis, opal glasses, overhead glasses, silencing, phosphoric anhydride

For citation: Zhukova L. T., Rybakova M. E. Study of samples of applied opal glass. *Design. Materials. Technology.* 2023;(1(69)):128–133. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_128_133.

Original article

DISCOLORATION OF HAIR WITH HYDROGEN PEROXIDE

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Abstract. Compositions for hair bleaching based on hydrogen peroxide are considered. It is shown that structural changes in the process of hair processing are manifested in a decrease in

elastic properties. According to strain-gauge studies, the elasticity index of the hair decreases with a reduction in the average diameter and a slight increase in the modulus of elasticity.

Keywords: human hair samples, coloring and discoloring compounds, additives, lightening, deformation and strength properties, spectral properties

For citation: Roganova E. S., Diankova T. Yu. Discoloration of hair with hydrogen peroxide. Design. Materials. Technology. 2023;(1(69)):134–137. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_134_137.

Original article

INCREASING THE EFFICIENCY OF STUDYING THE STRUCTURAL PARAMETERS OF KNITTED FABRICS

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Abstract. An analysis was made of the applicability of light-optical methods for studying the structural parameters of knitwear, including in the deformed state. Knitted fabrics of various structures were studied using the developed method. The method makes it possible to scan the test sample into computer memory, including in the deformed state and calculate the structural parameters using a special program. The working capacity of the developed method is shown. The dependences of the change in surface filling on the value of relative elongation are determined. Data have been obtained that adequately reflect the applicability of the developed method for determining the structural parameters of knitwear.

Keywords: light-optical methods, surface filling, knitted fabric, scanning device, operating loads, efficiency

For citation: Staniychuk A. V. Increasing the efficiency of studying the structural parameters of knitted fabrics. Design. Materials. Technology. 2023;(1 (69)):138–142. (In Russ.). DOI: 10.46418/1990-8997_2023_1(69)_138_142.

Original article

IMPROVING THE ACCURACY OF MODELING AND FORECASTING OF TEXTILE MATERIALS OPERATION PROCESSES

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Abstract. The article discusses the issues of improving the accuracy of modeling and forecasting the processes of operation of polymer textile materials, which are proposed to be carried out on the basis of appropriate integral criteria for the adequacy of modeling the viscoelasticity of these materials. The criteria are an assessment of the magnitude of deviations of the values of the integral convolutions of relaxation nuclei and creep of polymer textile materials from a theoretically justified single value. The less the value of this integral convolution differs from a single value, the more adequate the relaxation and creep models being developed, and, therefore, the corresponding numerical prediction of viscoelastic-plastic processes of the polymer textile materials under study will be more accurate.

Keywords: degree of reliability, mathematical modeling, forecasting, textile materials, polymers, viscoelastic-plastic processes, accuracy criteria

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