

## Summary

**S. V. Kochneva**

### **PEDAGOGICAL BLOG — INFORMATION TECHNOLOGY OF OPEN EDUCATION**

The article reveals one of the open education technologies — the technology of a pedagogical blog. The author analyzes possibilities of information technology in a combination with a pedagogical expediency of its application in a point and rating system of extramural training. The research is based on the author's professional experience.

*Key words:* blog, technology of open education.

**E. G. Berdichevskiy**

### **MAKING DESIGNER DECISIONS ON THE BASIS OF NONTRIVIAL THE LOGICIAN**

Basis for design of innovation solutions to serve non-trivial logic. As such, they proposed to use fuzzy logic, fractal logic and the logic of symbolic systems. The characteristic features of the proposed logic.

*Key words:* logic; design, idea, fractal logic, the theory of illegible the logician.

**V. L. Zhukov, V. V. Zhukov,  
Yu. G. Osipova, V. A. Khmiznikova**

### **PRINCIPLES OF THE PERCEPTION OF PHYSICAL SPACE AND SUBJECT AREA OF DESIGN ON THE BASIS OF THEIR CROSS-CORRELATION**

Are in this work carried out studies about shaping of the subject area of design as the result of interaction of physical and artistic and aesthetic space and the possibilities of the formal estimation of the concept of the means of the object of design with the design of its cognitive model on the basis of the theory of mathematical logic.

*Key words:* physical space, artistic and aesthetic space, the subject area of design, mathematical logic.

**N. Pisareva**

### **PRINCIPLES OF HARMONIZATION OF A COMPOSITION IN DESIGNING OF IS ART-INDUSTRIAL PRODUCTS FROM CERAMICS AND PORCELAIN**

In this article we examine the general principles of harmonization in the composition in design of art industry products. Also artistic methods and rules that create the composition and unfold understanding of tectonics, structure and artistic imagery in design. The article is written in

correspondance to the program that offers preparation for 261001.65 and 261400.62 specialists. It can be used by students from other professions and all who are interested in troubleshooting artistic design.

*Key words:* principles of harmonization, design, composition.

**V. V. Pavlova**

### **HAIRSTYLE DESIGN AND THE PERSONAL HARMONIZATION**

The possibilities of the hairstyle design in the process of personal development and direction shown and the design presentation as an effective way of the human education described in the article. The author has for an object the discovery of a hairstyle design sociocultural and educational function.

*Key words:* hairstyle design, environment, culture, morality, person, education.

**A. Sukmanov, A. A. Chichyov**

### **DESIGN OF PORTALS OF FIREPLACES FROM THE NATURAL STONE**

In article the basic criteria of an accessory of portals of fireplaces to certain architectural style which are necessary for knowing at their design and manufacture are analysed.

*Key words:* a fireplace portal, design, style, dressing, a material.

**S. V. Makarenko, A. S. Savelieva,  
U. I. Dmitrieva**

### **USING METHODS OF GRAPHIC DESIGN IN KNITTING FABRIC**

The modules graphic compositions are used to design knitting fabric, which wide application in field of graphic design. The squared diagrams were created and jacquard fabrics were designed by rib circular and flat knitting machines. The recommendations are given for using knitting fabric in decorative goals and using as advertising-souvenirs productions.

*Key words:* graphic design, module composition, knitting fabric, squared diagrams, jacquard fabrics.

**N. I. Natus**

**THE ANALYSIS OF INTEGRATION OF THE OUTDOOR ADVERTISING IN ARCHITECTURAL-ART AND COMPOSITE-SPATIAL TOWN-PLANNING SYSTEM**

The article studies the questions of composite shape-formation of integration of information-communicative systems and revealing of architectural-art conformity in relation to town-planning environment of St.-Petersburg.

*Key words:* the outdoor advertising, aesthetic perception, a composition, harmony.

**V. V. Chaban**

**ANALYSIS APPROACHES OF THE HIGH DYNAMIC TENSION WARP STABILIZER CALCULATION**

Shown results of analysis approaches of the high dynamic tension warp stabilizer calculation at warp-knitting machine. Founded, that calculation of the high dynamic tension warp stabilizer could be performed only by numerical methods, at that preference should be given to the finite element method.

*Key words:* warp-knitting machine, tension warp, tension warp stabilizer, high dynamic tension warp stabilizer calculation met.

**S. V. Loginov, A. A. Lukken**

**THE USE OF FOOD DYES IN THE MANUFACTURE OF PAINTS FOR CHILDREN'S CREATIVITY AND DESIGN**

Create paints is always associated with the process of dispersing the pigments and fillers in the binder that is running as a function of the medium with a refractive index lower than that of pigments and fillers, as well as film-forming function.

According to DIN 55 943, the pigment is a substance consisting of particles, practically insoluble in the environment of use, and that is used as a coloring agent or an agent that inhibits corrosion and gives the magnetic properties, the dye is a coloring substance that dissolves in the environment of use, the filler is a substance which consisting of particles, practically insoluble in the environment of use, and that is used to increase or improve the technical properties, changes in optical properties.

We have carried out work on the water-based paints such as gouache, and for the design of children's creativity by using coloring agent as a food coloring.

*Key words:* paint, pigments, colorants.

**E. V. Dyakonova, O. V. Meteleva**

**A NEW METHOD OF RESEARCH AND EVALUATION OF MIGRATION FEATHER AND DOWN MIX IN CLOTHES**

A new method for the study of migration Feather down mix in the seams of various configurations. The method allows the cyclic compression and the impact of performance scutching test package, with subsequent processing the visual image and the calculation of indicators to measure migration.

*Key words:* migration, feather down mix, coefficient through migration, coefficient of internal migration operating loads, compression, scutching.

**M. M. Chernyh, V. M. Ryabov**

**ENGRAVING: TERMS AND CLASSIFICATION OF IMAGES**

The point of view of authors on the terms used at engraving of images is set forth in article. Examples of the images received on various materials are given.

*Key words:* terms, engraving, classification, material, metal, stone, wood.

**A. Chichev, A. A. Sukmanov**

**THE ANALYSIS OF THE MAIN METHODS OF RECEIVING, PROPERTIES AND PROCESSING WAYS OF ACRYLIC GLASS, AS ONE OF COMPONENTS IN LAMP'S DESIGN**

The main methods present and analyze in the article for the preparation of acrylic glass: extrusion and injection molding. The advantages, disadvantages, and the ways to handle the materials obtained by these methods, which allow to realize the unique design projects.

*Key words:* acrylic glass, extrusion, casting, machining, design, lamp.

**S. V. Loginov, A. A. Lukken,  
I. N. Kuznetsova**

**PHYSICO-CHEMICAL BASIS, AND ENVIRONMENTAL ASPECTS OF THE PRODUCTION OF WASTES MOBILES AND BY-PRODUCTS OF LIVESTOCK**

The research and practical work on the production of pigment burnt bone from various types of raw materials, such as from animal waste — animal bones, as well as co-product of waste treatment — bone meal. The result was of use of experimental batches of high-quality black pigment, making recommendations on the organization of production line blacker, ensuring compliance with environmental standards.

*Key words:* black, pyrolysis, graphite.

**A. E. Pavlova**

**THE ANALYSIS OF INFLUENCE OF STRUCTURE AND PH OF PATINATING SOLUTIONS ON COLORISTIC CHARACTERISTICS OF THE PATINA**

In this article influence of structure and pH of patinating solutions on coloristic characteristics of a patina on a brass surface is considered.

*Key words:* patina, patination, concentration, pH, coloristic characteristics.

**A. Y. Emelyanov, S. G. Petrova**

**TRADITIONS OF HOT ENAMELLING IN THE NEAR EAST AND CENTRAL ASIA**

The article examines the traditions of hot enameling to decorative art objects in the regions of Near East and Central Asia from the point of view of technology and history.

*Key words:* cloisonne technique, design of the decorative art objects.

**E. A. Mischina**

**PLANOGRAPHIC PRINTING IN RUSSIAN ART OF THE XVII C.**

The article offers the first study on the techniques of early planographic printing, its place and role in Russian art and culture of the XVII century.

*Key words:* Russian culture, Russian art, printing techniques, planographic printing.

**O. A. Pechurina, Q. A. Javadyan**

**DRAPERY AS ELEMENTS OF THE FAMILY AND GENERIC CULT**

The article explains symbolical value of drapery in ancient people's traditions originating from the cult of the ancient Mother-Goddess and relic technologies of manual weaving. Basing upon the results received, the authors explain symbolical value of draped clothes of Greeks, Romans, ancient Indian tribes, Etruscans, and Ancient Egyptians, as well as their relation to the family-generic cult.

*Key words:* Neolithic culture, family-generic cult, weaving, thread, spinning, drapery, Indo-Europeans, Greeks, Romans, ancient Indian tribes, Etruscans, Ancient Egyptians, Egyptian funeral cult, sari, gimation, toga, peplos, tunica, pallium.

**E. G. Tsareva**

**HIDDEN BEAUTY: ARCHAIC KNOTTING SYSTEMS IN TURKMEN CARPETS FROM XVI TO MIDDLE XIX C.**

The article discusses numerous peculiarities of practiced by the Turkmenistan weavers archaic systems of knotting, which roots go back to the Sumerian tradition, take shape in the Bactrian period (last centuries of the 1st mill. BC —

first centuries AD), and continued, although with slight changes, in knotted weavings of a number of Turkmen tribes of the above named period.

*Key words:* origin of knotted weaving, systems of regular and irregular knotting, Turkmen, Bactrian carpet weaving.

**N. V. Afanasyeva, D. S. Matveeva**

**NATIONAL SUIT OF THE VOLGA REGION AS THE SOURCE OF CREATIVITY OF DESIGNERS OF CLOTHES**

Analysis of the features cut suit Volga. Identification of the main methods of creating the Russian national costume. Using elements of folk costume in the collections of modern designers.

*Key words:* costume Volga, historical cut, Russian folk costume, design clothes.

**O. P. Dedic**

**MILNER GREY — «ELDER» OF SHOP OF THE BRITISH DESIGNERS**

The article is devoted to one of the key figures of British industrial design in the 20th century — Milner Connorton Gray (1899–1997) and his important role in establishing design as a recognized profession and the emergence of British design consultancies. The book «Package design» (1955) about the history, functions and design of British package is considered.

*Key words:* SIA, Design Research Unit, Package Design in Great Britain, corporate identity design, label.

**M. I. Korzina, V. A. Lyenko, A. A. Lyenko**

**SYSTEM DESIGNING OF THE WEB-SITE**

Peculiarities of a web-site as system are considered. Adaptation and the model description with reference to subject domain of web-sites creation is spent on the basis of the generalized information model of design (system engineering). The design model description both in IDEF0 methodology, and as program algorithm is offered. Features of web-sites creation, and also features of existing web-technologies use at a material embodiment stage of life cycle and web-sites operation are analyzed in details in the frames information model of design.

*Keywords:* design, system engineering, design information model, a web-site, life cycle of design object.

**V. S. Kudryashov**

**ANALYSIS ESTABLISHMENT AND OPERATION OF MODELS OF INDUSTRIAL CLUSTERS FOREIGN COUNTRIES TO IMPROVE COMPETITIVENESS OF REGIONS OF RUSSIA**

The relevance of the question of increasing the competitiveness of the economy of the Russian regions necessitates

the study and analysis of existing regional industrial clusters based on international experience.

*Key words:* cluster, industry, development, competitiveness, state, region, Russia.

**L. N. Nikitina, I. S. Solovev**

**MODERNIZATION OF A HEAT POWER  
COMPLEX OF LENINGRAD REGION**

In article the problem of formation of mechanisms of modernization of a heat power complex within the limits of the investment policy of the state is put. Authors of article

structure the purposes of attraction of investments into a heat supply, and also ways of their achievement.

Authors present the mechanism of quality standard of efficiency of functioning of systems of the heat supply, offered to use at legislative level for the purpose of revealing of the most problem objects of heat power engineering. For revealing of areas of the fixed capital most needing updating it is recommended to use set EFFICIENCY heat source on heat supply system.

*Key words:* modernization a heat power complex, the investment into a heat supply, efficiency of the enterprises of power system, system effectiveness of a heat supply.