

Application and Innovation Analysis of Knitting Art in Clothing Design Based on Plane Composition

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Abstract

In the design of apparel, no matter the simple structure or the complex structure, it is ultimately reflected in the changes of points, lines and surfaces. Various materials and different techniques can be used to weave a variety of texture effects. As people's spiritual pursuit level is getting higher and higher, as a costume reflecting people's ideological connotation, it should also follow the pace of the times. If the change rule of plane composition is applied to the design of apparel, it will play a positive role in promoting the design and modelling of apparel. Weaving art has a long history in our country and has different cultural characteristics in different historical periods. It reflects the living standards and cultural characteristics of people at that time. We study the application of plane composition in the design of costumes, which is to explore and study its constitutional principles and modeling methods, and how to apply the basic elements in the plane composition to the design of costumes.

Keywords

Costume; Design Art; Plane Composition; Cultural Characteristics.

1. Introduction

Knitting art is a traditional handicraft with strong national characteristics. The composition of costume modeling is not equal to the plane composition. The plane composition is the point, line and surface of the figurative form and the abstract form in the two-dimensional plane space [1]. In accordance with the principle of beauty, it decomposes and combines to create new forms and ideal combinations. The artistic conception of clothing art is the most intuitive way of expression in modelling. In the design of clothing, the use of knitting techniques can deeply enhance the aesthetic feeling of clothing design [2]. In teaching, teachers usually start from a topic. First explain the theoretical knowledge and the method of plane composition, and then assign homework. Let students do exercises related to the theoretical knowledge of the classroom [3]. Some designers and folk artists have applied innovative uses of woven materials and crafts. Therefore, the products with the characteristics of pastoral, practical, environmental protection, elegance, and simplicity are designed. For people, clothing is a direct manifestation of their own aesthetic and character, most of them have a certain style. The application of weaving art in costumes is undoubtedly the improvement of the aesthetics of costumes, and has a certain role in the formation of costumes.

Using a variety of materials, using different techniques, can weave a variety of texture effects. As people's spiritual pursuit level is getting higher and higher, as a costume that reflects people's ideological connotation, it should follow the footsteps of the times. Along with the continuous strengthening of globalization, new ideas and new ideas from abroad have flooded into China, which has had an impact on China's inherent aesthetics and values [4]. Some students lack the practical experience of art design, the abstract theoretical knowledge and the modular composition method, it is difficult to meet the students' actual learning needs. It is

even more difficult to understand the meaning of the existence of the curriculum through learning and understanding [5]. Appropriate use of knitting technology in costume design can create a variety of styles, such as national, pastoral, primitive, elegant and so on. Knitting art has a very long history in China, and has different cultural characteristics in different historical periods [6]. It reflects people's living standards and cultural characteristics at that time. With people's awakening and pursuit of self-consciousness, people are more and more keen to show different selves. The application of knitting art in Chinese apparel has positive significance for people to show different selves.

2. Analysis of the Application of Knitting Art in Clothing Design

The plane constitutes a course and is part of the basic teaching of art design. Generally speaking, the plane composition course begins with an introduction, and then involves the form of the plane composition and the core content of the plane composition. It is an indispensable step in the construction of the clothing product plane. The points, lines and faces in the plane composition can be directly applied to the plane composition of the clothing item [7]. Different weaving gives the clothing characteristics of different eras, which shows the beauty of art. Especially in the new century, hand-woven clothes are everywhere. The graphic composition is a basic course. The focus of teaching is to let students understand points, lines, and creative combinations. Costume is essentially costume accessories, mainly playing the role of decoration and embellishment in costume design. According to the function of clothing, it can be divided into flower ornaments, shoes, hats and so on. In different historical periods, weaving art has different development, different characteristics and different meanings. Therefore, it vividly shows the people's life and cultural development at that time. As a folk art with a long history, weaving embodies a large number of labor force, creativity and the wisdom of the working people.

In the teaching of plane composition, teachers should consider whether students are confident to accomplish this task when designing the subject. The theme of the topic should be related to the topic in the classroom, requiring students to combine their own design with practical needs. At present, flower ornaments are widely used in fashion design. People wear flower ornaments in many parts of the body, such as arms, head and neck, which has a certain moral meaning. As a form of artistic development, knitting art is the crystallization of wisdom of the working people for a long time, while retaining the historical traces of each dynasty. The practicality of plane composition course is greater than that of theory. Only by giving priority to practice and supplementing theory, can the teaching efficiency of plane composition course be improved [8]. Every subject practice is very important for the improvement of students' artistic design ability. The practice of plane composition is not the design practice of the terminal, but it is the basis of art design. It is suitable for all art design disciplines, and how to import the foundation into the profession is our task. The connotation of the clothing products is the clothing pendant, which plays an important role in the design of the clothing. Appropriate use of weaving art in apparel varieties can effectively convey staggered, entangled and various tactile textures to ensure that clothing has more features.

When following the principle of completeness, it is necessary to make a more subtle design or treatment of the part while ensuring the overall coordination of the work. The design and application of the art of knitting is conducive to the development of the characteristics of the clothing. When weaving art is applied to different costumes, it will have different effects. We must fully consider the overall coordination of color and artistic conception. When following the principle of harmony, we should pay attention to the harmony of costume form and local collocation. The knitting art is created by the working people, and a variety of artistic materials are used in the knitting art. And the handicraft will play a thorough and vivid, with a certain form of beauty and artistic conception. An accessory on clothing can guide people's vision, and

has the nature of solidifying and concentrating the line of sight. Most of the flower ornaments are finished by knitting technology. For example, the application of crochet knitting in autumn and winter clothing decoration, can obtain good aesthetic effect. Make the location and elements of clothing and accessories the best in the combination, so as to make the work more attractive and appealing.

3. Application of Plane Composition in Clothing Design

In the process of continuous development of our country's weaving art, the design concept has also been innovative. When a plurality of gang members are combined in a face shape, the premise can be achieved with a good constitutional effect. It can reduce the consumption of raw materials, reduce the consumption of working hours, and reduce the production cost. Using leather strips to weave some shoes with a strong gloss, it can show an urban style. With a nubuck leather weave can achieve a primitive and rough style. The use of reverse thinking to innovate the design of weaving art can add new design connotations to traditional art [9]. Knitting art is an important part of Chinese traditional art form, which is worth studying and studying. Knitting art in clothing has become the backbone of Chinese consumption. Using reverse thinking to innovate knitting art can enhance the connotation of design. At the same time, it can provide more profound aesthetic connotation for fashion design. Teachers should start from the actual level of students and put forward one-to-one suggestions on students' professional skills and design ideas. Because some of the shape or combination of the parts will produce some difficulties in processing, which will increase the consumption of working hours. This may lead to the loss of price attraction in the market.

The point, line and surface of any apparel design are mutually transformed. The three are indispensable. If a point becomes larger, it can become a surface, and if the points are arranged orderly, it can become a line. Lines can become planes when they become larger, and lines can become linearized planes when they are arranged. When designing clothes, we should break the conventional rational thinking. It realizes the comprehensive use of many elements and rearranges and combines different parts. Irrational thinking refers to some breakthroughs in common sense thinking, and from which to seek new inspiration and design innovation breakthroughs. Due to the weaving technique of the weaving art and the problem of the woven material, the phenomenon that a certain coil is separated from the adjacent coil is prone to occur during use of the woven article. The density between the coils is reduced and the strength of the woven artwork is reduced. When a plurality of gang members are combined in a face shape, the number of gang members should be minimized on the premise that a good structuring effect can be achieved. This can reduce the consumption of the material and reduce the consumption of working hours. In design innovation, only the irrational way of creating this form of expression can break through the limitations of the combination.

During the introduction phase, the teacher needs to have a general understanding of what is going to be learned. In the process of weaving apparel, weaving designers should minimize the use of stitching and reduce exaggerated design. Teachers can use the comparison and analysis of design legends to guide students to realize the practicality of the plane composition curriculum. In realizing the innovation of traditional elements, designers need to maintain the principle of integrity and harmony to ensure that traditional elements can be effectively used [10]. Promoting students to understand the importance of theoretical knowledge learning for their personal graphic design work and eliminating students' wrong learning concepts. When designing clothes, irrational thinking can use many elements synthetically. At the same time, through the breakthrough of rational thinking, all parts are reorganized and combined. In teaching, using effective classroom introduction to attract students' attention, and collecting more real design cases are conducive to improving the teaching effect of plane composition theory. For apparel products manufactured with medium and high-grade materials, the good

layout of parts can greatly reduce the cost of production and effectively improve the price competitiveness of products.

4. Conclusion

When drawing clothing effect maps, we should deal with the mutual echo relationship between plane and three-dimensional. Make the point, line and surface in the plane composition can produce positive effect in the fashion design. Only by constantly enriching and expanding our decorative culture, can we make the national characteristics be inherited. The combination of fashion design and plane composition is a close combination of technology and art, and a design discipline with innovative significance. Enhancing the teaching innovation of plane composition course, guiding students to open up their own thinking, developing students' artistic potential, is conducive to the development of design thinking. In addition to skilled graphic skills, we should also have deep artistic accomplishments, and we can enhance the aesthetic value of apparel products with artistic minds and artistic vision. By using weaving tools combined with flexible knitting techniques, we can weave very fine crafts. We need to constantly quote the elements of fashion and the elements of the times into the products of the apparel, so that we can move towards a strong country of fashion design.

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References

- [1] Xue D, Hu H. Mechanical properties of biaxial weft-knitted flax composites. *Materials & Design*, Vol. 46 (2013) No.46, p.264-269.
- [2] Velden N M, Patel M K, Vogt?Ander, Joost G. LCA benchmarking study on textiles made of cotton, polyester, nylon, acryl, or elastane. *The International Journal of Life Cycle Assessment*, Vol. 19 (2014) No.2, p.331-356.
- [3] Zhou L, Feng X, Du Y, et al. Characterization of Liquid Moisture Transport Performance of Wool Knitted Fabrics. *Textile Research Journal*, Vol. 77 (2007) No.12, p.951-956.
- [4] Yamada T, Matsuo M. Clothing Pressure of Knitted Fabrics Estimated in Relation to Tensile Load Under Extension and Recovery Processes by Simultaneous Measurements. *Textile Research Journal*, Vol. 79 (2009) No.11, p.1021-1033.
- [5] Ertekin G, Marmaral? A. Impact resistance behaviour of silicone coated warp knitted spacer fabrics used for protective clothing. *The Journal of The Textile Institute*, (2017) , p.1-9.
- [6] Yuksel C, Kaldor J M, James D L, et al. Stitch meshes for modeling knitted clothing with yarn-level detail. *ACM Transactions on Graphics*, Vol. 31 (2012) No.4, p.1-12.
- [7] Cho G. Performance Evaluation of Textile-Based Electrodes and Motion Sensors for Smart Clothing. *IEEE Sensors Journal*, Vol. 11 (2011) No.12, p.3183-3193.
- [8] Semnani D, Sheikhzadeh M. New Intelligent Method of Evaluating the Regularity of Weft-knitted Fabrics by Computer Vision and Grading Development. *Textile Research Journal*, Vol. 79 (2009) No.17, p.1578-1587.
- [9] Wang L, Yu K, Zhang D, et al. Cut resistant property of weft knitting structure: a review. *The Journal of The Textile Institute*, (2017) , p.1-13.

- [10] Alagirusamy R, Eichhoff J, Gries T, et al. Coating of conductive yarns for electro-textile applications. Journal of the Textile Institute, Vol. 104 (2013) No.3, p.270-277.