The Organic Combination of Draping and Plane Tailoring in Clothing Pattern Construction

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Abstract. This paper analyzes the characteristics of draping and plane tailoring and then through compares the advantages and disadvantage ultimately concluded that organic combination of draping and plane tailoring is the necessary requirement for domestic tailoring technology future development, furthermore, it is one of the core competition technology for China widely participate world's garment industry. So, how to fully utilize advantages of draping and plane tailoring, meanwhile organic combination of this two tailoring technology has become an important trend of the domestic garment industry in the future development. Under the new historical background, since development and improvement of domestic economy, people have higher demanding for life quality. Especially for clothing, people requires not only comfortable, but also beautiful, elegant, and therefore in-depth study the applying of two tailoring technology in clothing Pattern Construction has practical significance for Chinese garment industry to enhance overall competitiveness and development. Therefore, the author discusses and research in this context.

Introduction
Nowadays, domestic garment constitute more inclined to use plane tailoring. While although plane tailoring has lots of advantages, such as simple, convenient and high efficiency, because of people's attitudes to clothing consumption has undergone great changes, they pursue personalization. So this technique appears obvious limitations, have a certain influence on the development of clothing brand; for western clothing construction as early as middle Ages had begun development and agglomeration advantages of draping, compared with plane tailoring, it has advantages and complementarities but it is not to say this tailoring method is perfect. Therefore in order to effectively play the advantages of the two tailoring methods, meanwhile to avoid the disadvantages should be inherit and carry forward Chinese traditional clothing technology and positive absorb foreign technologies, which means organic combination of draping and plane tailoring is a irreversible trend of future tailoring technology development for Chinese garment industry, so as to form the core competitive advantages for Chinese garment industry.

Clothing Tailoring
Clothing tailoring refers to the whole process of cloth draping to apparel fabric tailoring; there are three main ways for tailoring: plane, examples and prototype. Plane tailoring based on measure human dimension, designs plane drawing, which is short-inch type cutting method. While, draping refers to the prototype garment tailor from model form or human body, which is conform to human profile. Prototype tailoring used inference method, relying on the type of clothing draping and then put clothing looseness applied to the prototype of tailoring. Human torso has more fluctuation, there are great differences between male and female, so we need to depend on different gender and style to tailoring, so that the clothing will be more fit and beautiful. Meanwhile, for technology there are two differences tailoring methods: Batch and single piece. While clothing structure is also divided into two ways: draping and plane tailoring. As the plane tailoring, draping is also the key and foundation of clothing design, it is important for designer to understand the fabric, explicit body and acquired inspiration, combined with pins and scissors to further explicit the fabrics and apparel, apparel and body charm.
Draping and Plane Tailoring Two Important Means and Methods in Clothing Pattern Construction

There are two important forms for clothing design: draping and plane tailoring, the complete theoretical and practical experience of clothing Design is enriched by this apparel content and methods.

Plane Tailoring

Plane tailoring is the most important Clothing tailoring method. Plane tailoring mainly relying on the necessary structural dimensions measured from the human body, use of prototype and a variety of methods supported by the scientific steps. Plane tailoring drawing need based on the measurement data of human body, so it has many calculation methods. With this approach to tailoring should considerate the size characteristics of the human body, clothing styles, and other factors. Meanwhile, it is important to consider comfort levels when people movement with a variety of technical methods to drawing out the structure chart. Clothing diagram has lots of geometric figure and human body has always been a free surface. Body has upheaval and sunken, in order to get proper clothes, we need to set up a scientific plane structure diagram, in fact the plane configuration diagram is a microcosm of human body.

Relying flattening reduction method, the need to put dart, pleats settings in the local position, sometimes in order to achieve a particular shape, also need to set dividing lines, decoration set in clothing structures. Clothing plane tailoring can be divided into two ways: directly and indirectly tailoring. The so-called indirect means of tailoring on the size of the human body and added in looseness, rely on most people’s type make papier-mache, which we called fundamental form and prototype. Then rely on the basic requirements of style to reduce or extend operation so that produce suitable tailoring drawing. In fact, since the women and children's dress have diverse styles, so it suitable to use the indirect method. Compared with indirect method, the directly method is also based on relevant body size, meanwhile according to seasons, materials, people dressing habits and preferences added into looseness to finished products. This method of tailoring is based on finished product size, as well as direct and reasonable distribution into all parts. This tailoring method is one cutting methods used in large scale production of clothing.

Draping

Compared with Plane tailoring, Draping is very different. It is one of the main measures to be modeling clothing as another method of tailoring.

France people called clothing draping as “shortcut tailoring" in the United Kingdom and the United States, clothing draping has been called "cover tailoring" in the neighboring country Japan also has a different name "general tailoring" This approach directly use cloth over the body or model form, supplemented split, folding and other technical means to make out the Garments , and then removed the cloth from the body or model form, make some scientific changes, ultimately translates into garment pattern to achieve apparel production.

In fact, Draping appears relatively early, but it is not invariable, but changes according to the development of apparel civilization and people's aesthetics for clothing structure, to achieve their own development. From the aspect of Western clothing history, which is divided the costumes into three stages: non-molding, half-molding and molding. During the development process in the history of Western clothing, every stage has important promote role. The Draping appears in the third stage of West clothing history which belongs to the Gothic period. In this historical period, the Western aesthetic and humanism philosophy be established which based on narrow clothing culture of Germany, forming clothing structure which is prominent female body curves, and then laid the main shape of Western women's garment. From that time, the European Gothic period becomes an important period in the history and development in process of make clothing. Since then, access to the continuous development and growth in the development process of garment. Since this way have a higher fit degree of the body, so we have to tailor with actual requirements of the human body. With the development and growth of the garment industry, three-dimensional costumes through constantly evolving obtain a strong development and have been further improved.
The Application of Draping in Modern Clothing

The apparel modeling with three-dimensional has variety constituted ways and using in a wide range. First, when design formal dress and creative clothing, designers by virtue of their material texture, light, lines, and other formal beauty, to further improve their design inspiration, Perspective reflected in fabric drape and the overall spaciousness is more explicit in three-dimensional ornaments and multi-level modeling, relying draping way to achieve assembly requirements clothes, to achieve the effect of human conduct aesthetic expression. Second, garment exhibition, windows and other needs of the art on display clothing, needs to exhibition clothing artistic style, popular features and artistic appeal, which requires the help of three-dimensional modeling, and it is closely related with draping. In fact, for some conventional clothing styles, draping is also more suitable, but usually it only as a supplementary measure. Mostly, production less variation garment adopts plane tailoring to make sample.

From this it can be seen in modern clothing, draping plays an important role. As costume design personnel, we need this important means of in-depth analysis and research. Design clothing also according to the characteristics and requirements of the times, fit the contemporary aesthetic point of view, so we are required to deep understanding modern design concepts and means and grasp the unique charm of draping, harmonious unity work content and works ideological content, then well expressed it.

The Fusion of Plane Tailoring and Draping

Firstly, from plane to three-dimensional, and then from three-dimensional to plane. relying on the basis of size, such as chest, back length used Plane tailoring methods, such as the collar, armhole, and other position leave more seam, and after tailoring add baste then try on. Adopt three-dimensional observed the human body or model for shape sorting, size adjusted, and then plane of the sample dress, according to the mark to modified clothing, then determined model type.

Secondly, combine the plane tailoring and draping. The draping modeling method in determined position, if for some position has confidence, you can directly tailoring.

Thirdly, from three-dimensional to plane, comprehensive process modeling used in draping, since it is difficult to accurately draw the human underarm, armhole and other double-curved parts, so it need planar initial shape, then corrected transformation (e.g. whether each part is proper, the structure can be fully consistent) eventually make out type model.

This is mainly for the two apparel processing. Draping is mainly basis of real body, processing selected material and design shape. Plane tailoring is mainly based on the physical size of the body position, to make it as the basis for processing apparel, and this is the maximum difference between Authenticity and the two methods. In order to further improve the process and modeling, operation draping technique used more real, stronger compared to its authenticity. The cutting plane mainly relying on the size of the human body for processing and design, its mode of operation is strong empirical and uncertainties. Both contrast, we were able to significantly distinguish the good and bad of two kinds of cutting methods; it is true, on the accuracy of the shape and size, draping technique better. However, although the plane accuracy cutting technology disadvantage in size and shape, draping techniques require cumbersome processes and complex operations. The current important stage in industrialization, industrialization requires a large number of tailored clothing productions, a feature that determines the cutting plane garment processing technology has always been the upper hand in such production methods, draping technique is extremely suited. In addition, knowledge of the technical design draping system is one of the reasons for it’s widely restricted in industrialized garment production. But for each method, it has advantages and disadvantages, so we need combined them and better development of garment industry.

Conclusion

Currently, there are two clothing structural design process: plane tailoring and draping, they are
have same purpose of perfect combine body and clothing, although each have advantages and disadvantages. Nowadays, people are giving more meaning to clothing, so clothing no more just have the function of shelters body and cold. At the time of People pursuit personalized, it must be effectively combined plane tailoring and draping technology, flexible choice, mutual promotion and mutual influence, this is an irreversible trend in the future garment industry.

References

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