

Material in Furniture Emotion Design Expression Way

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Abstract – From the Visual of furniture and tactile aspects, This article carries on the emotion expression analysis of furniture. The expression of material has inherent natural beauty. The expression of material is mainly based on the function of the expression of the psychological and emotional resonance in furniture design. Discussion on three aspects of color, shape and texture of the material, This article thoroughly discusses the use of wood, glass, metal three materials in the furniture design, and producing the different effects .The use of any material has an important position in the emotional design of furniture, Material follows the law of beauty of form, and its aesthetic features are appropriate for the design of furniture, showing its rich connotation, It will be the quality of its own characteristics play to perfection.

Keywords – Material, Emotion, Furniture, Skin Texture, Product Design.

I. INTRODUCTION

In the furniture design, the texture can be divided into two categories: visual texture and tactile texture. The most direct manifestation of the emotional expression of material is the vision [1]. People feel the texture of the furniture through their vision, and the heart touching of roughness and delicateness softness and hardness it brings to us. Next is the tactile effect produced by human body when contacting the furniture, which can make the texture produced by vision more real, and touch our hearts more deeply. The foundation of furniture design is the processing mode of the material, such as the softness or hardness of the material, the roughness or delicateness of the texture, and the patterns of texture, etc.[2]. The proper use of the materials will make the furniture modeling show became the icing on the cake. In the style of furniture design, the use of material is the most direct embodiment, each piece of furniture design contains a variety of texture, color and process technology, and has become a furniture culture in the most aura.

II. THE BEAUTY OF THE TEXTURE OF WOOD FURNITURE

A. "Sleeping Beauty" Chair

The use of wood in traditional furniture is the most wide way, and it is the most important material used for expression [3]. Mainly due to the rich resources of wood, processing convenience, and unique decorative effect which can show the unique charm of wood. Through the summary of Chinese and foreign furniture, we can see the universality of applying wood in the furniture manufacturing. The style of furniture is mainly based on the change of material, the change of the material and the processing will form a different style characteristics [4]. For example, the wood is simple, rough before the

polishing treatment for the surface, but it will become elegant and delicate after polishing.

Application of Chinese traditional art is fastidious about the line, from calligraphy to painting. Ming style furniture expressed it very intuitively. (Fig.1) is Zhu Xiaojie's "Sleeping Beauty", which makes full use of the characteristics of the material, shows a smooth and delicate perfect arc, expresses the beauty of the lines perfectly. According to the characteristics of wood to select the furniture material, the ebony sapwood streamline like texture was chosen, and the deep brown texture seems natural and synthetic in the background of log color, which is like the landscape of Chinese paintings. Traditional Chinese classical furniture, the majority of which use the valuable hardwood as the subject due to their solid quality, heavy color and pattern lively beauty, reflecting the leisurely wood rhyme of Chinese traditional furniture which is composed of a natural material interface[5].



Fig.1. "Sleeping Beauty" Chair

B. Multifunctional furniture

Wood has a natural texture and color, and it is easy to process. Different species expresses different beauty[6]. For example, Pine heartwood pale rose, sapwood yellowish white; Chinese fir heartwood red brown, sapwood pale yellow, etc. Because of the different wood rings and the direction of grain, it forms different coarse, fine, straight, curved shape of the texture, and it forms a variety of patterns by a variety of processes. Wood furniture brings user not only a natural beauty, but also a spiritual enjoyment of enjoying the comfortable beauty of the integration of people and nature .

Material determines the change of furniture product design, which is an important part of the art of furniture and the material basis for the design of furniture products [7]. In the furniture design, its shape, color, texture are dependent on the material and the formation process. Every material has its own specific way of expression. (Fig.2) is a group of multi-functional furniture products which have natural section and skin, which can be used for a table or a lamp. The first visual impression it gives to

user is that it seems close and natural. Wood color shows a rough natural texture, and it exudes a touch of Radix Aucklandiae combing with the specific ring texture of wood, which express a kind of intuitive emotional needs.



Fig.2. Multifunctional furniture

III. TRANSPARENT BEAUTY OF GLASS FURNITURE

A. Physical properties of glass

With the progress of society and the rapid development of science and technology, people are not satisfied with the visual experience of natural materials. As a new and traditional material, glass is slowly being used in the design of furniture, and glass is a kind of peculiar and beautiful material, which affects the user's psychological feelings gradually. Glass has a series of excellent characteristics, such as hardness, transparency, air tightness, decorative, chemical resistance, heat resistance and electrical, optical and other properties, and it can be made into a various shapes and sizes of products through the variety of molding and processing method of blowing, pulling, pressuring, casting, grooving and so on[8]. Due to the different processing technology, the emotion is different. According to the characteristics of the glass, it includes the transparent glass and translucent glass, colored glass and colorless glass, and so on, the emotion it expressed is also divided into several ways: crystal clear and frustrated, which reflect the feeling of human touch of smooth, matte, hard, accurate, etc. [9] Along with the the change of the furniture style, people increasingly like the glass which seems can breathe. Compared with the traditional wood furniture, glass furniture has the same value as the practical performance. At the same time, the glass has a crystal texture, through the modern advanced processing technology, it can create a unique artistic effect.

B. The ghost chair will breathe

(Fig.3) is made of crystal glass, with a 12mm thick crystal glass plate cutting, through the soft bending process to form an arm, a 25cm long hole, down into the seat, and eventually form a transparent crystal glass. Designers have been standing in the position to imagine the production of furniture, he believes that in the relationship between the furniture and people, the furniture

is not just physical objects, but the sum of the dream, the desire and the possibility. Ghost used the transparent material, which shows the kind of transparency of the BLOW series. Transparent seems as in the black and white, bright or flat, but in fact it is just a chair, a creative chair which let people use and enjoy. Any furniture shape is created through the material. If there is no suitable material, the unique shape is difficult to achieve. The shape of the furniture is various, and we can feel its beauty from its various forms. Its shape can reflect a country's material civilization and cultural and artistic achievements.

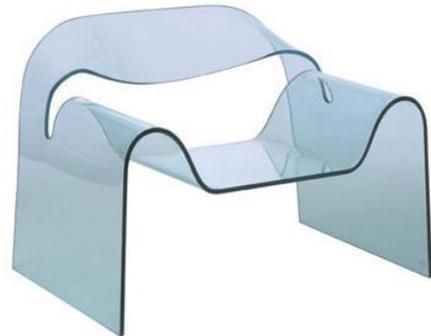


Fig.3 Ghost chair

IV. THE TENACITY OF METAL FURNITURE

A. Characteristics of metals

Metal material gives people the feeling of strong. Along with the progress of science and technology, the metal material increasingly appears in the consumer's side, the material brings the luster feeling, which is the biggest characteristic of the skin texture performance, it is also the most infectious and modern material properties.[10] The presentation of the texture of the metal can be rational, and harsh. In the visual impact, it can feel the various forms of performance, such as flat plate, tall and straight wire, bright polishing material, as well as the traces left by history . Different material properties has different color, shape and texture [11]. As the golden bright, refined of silver, bronze sedate, the lightness of stainless steel, we can realize the hard , dignified, smooth or the cold feeling mental of mental it brought to the user.

B. Diamond chair warm

(Fig.4) is a chair made of metal welding, it is a soft metal mesh, which includes everything in the inside, the connection of the metal bracket was used as a support, so that the entire chair formed. Metal material after processing technology became shiny and its shape is similar to the diamond, which likes a bright diamond. Its biggest feature is that it will not leave traces of time over time, it leave many memories on the contrary to arouse the user's psychological feelings of the past. It can be placed in any position, and you can also add a cushion, suddenly the warm, inclusive, safe feeling will be full of people's heart. The use of texture fully expresses the inner feelings of metal works, and gives the diverse connotation and vitality to furniture. With the changing of metal texture, the users have colorful visual experience, and brings the users colorful emotional experience. Metal is the pillar of

modern industry, metal materials processes good performance, and it can be used to achieve a variety of products in accordance with the idea of the designer, so that it is widely used in industrial product design. Metal furniture uses its own rigid and flexible to achieve a solid and flexible dual purpose. It gives people a gorgeous strong visual effect and a delicate sense of modernity[12]

Users get emotional responses from the product, based on the different aesthetic features (such as color, shape, etc.), give a unique personality. Whether human or product, as long as the user feel the emotion it expressed, they will cater to the emotional performance in a natural and initiative way. Whether it is face with other people or the science and technology, people all like simple, natural and predictable situation. In order to let the user get a sense of trust in the use of products, the personality and the common should always be consistent in product design and the process of packaging. If users have a positive impression in the communication with the product, they will get the user's trust.



Fig.4. Diamond Chair

V. CONCLUSION

Material is the basis of furniture design, and it is also an important material condition for the expression of emotion. The natural emotion brought by wood furniture, the bright emotion produced by glass furniture, and the visual impact brought by metal furniture all shows the infinite artistic charm of material in the design of furniture. And the material is also an important witness of the development of furniture emotional design. Furniture from the wood era evolution to metal age, age of plastics, ecological era, whenever there is the emergence of new materials, created a period of furniture design style of the times in a large extent, furniture materials has been continuously enriched and updated, in a certain extent determines the furniture modelling of the kinds of changes and changes.

In the design of furniture, each material has its own characteristics and its unique emotional expression. Organizing different characteristics of different materials in subtle ways can make the furniture possess a unique sense of beauty in its shape, color and so on. The key to design a successful furniture product is whether the

designer understands people's psychological needs[13]. Only combining the emotion of materials with furniture, which lays emphasis on the people-oriented concept, can a piece of furniture cause people's emotional resonance, and will has a long history.

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