

# Research on Outdoor Furniture Design based on Emotional Design Concept

Linzhi Zhou

CITI University of Mongolia, Mongolia

## Abstract

The rapid development of economy has improved social productivity. With the improvement of people's living standards, the requirements for the quality of life are getting higher and higher. However, the fast-paced life makes people in a sub-health state. Therefore, it is necessary to pay attention to the sub-health problem of urban residents. In order to alleviate physical and mental fatigue, people have begun to pay attention to outdoor life. Among them, outdoor furniture, as an emotional communication medium between people and the environment, can directly affect people's psychological activities. The design level of outdoor furniture should be effectively improved, which is conducive to improving the happiness index of residents. Based on this situation, this paper focuses on the emotional design of outdoor furniture for peer reference.

## Keywords

Outdoor Furniture; User Emotion; Design Research.

## 1. Introduction

Sub-health affects people's physical and mental health at all times, and outdoor furniture can meet people's psychological needs. If outdoor furniture reflects the emotion of humanistic care, it can reduce the incidence of sub-health to a certain extent. In this paper, the emotional principle of outdoor furniture, design thinking mode and design elements of these three aspects of research, hoping to play a role in promoting the development of outdoor furniture design.

## 2. The Relationship between Emotional Design of Outdoor Furniture and Outdoor Activities

Designers will collect all kinds of data before the sketch design stage, and make reasonable analysis and judgment before entering the definite stage. Therefore, outdoor furniture is also a product of social development, which can reflect the contemporary era mark. Productivity is the ability of people to integrate resources and use existing resources to transform nature. All productive activities related to people cannot leave the groups, goods and environment in society. For example, every dynasty in China has its own unique label. The furniture in Ming and Qing Dynasties is simple and elegant, and the furniture in Tang Dynasty is magnificent. This is because people in different periods have different requirements for production, and outdoor furniture can also convey different emotions. For example, Lanting was a leisure place for literati in ancient times, and its structural layout exuded an atmosphere of indifferent fame and fortune. However, in modern times, Lanting usually belongs to the leisure facilities of the masses, which also meets contemporary needs. Outdoor furniture can be seen everywhere in public places. For example, park benches are designed to meet people's rest needs. If there are no benches in the park, it is likely to shorten people's outdoor sports time and reduce their quality of life. The core of outdoor furniture design is "people-oriented", and outdoor furniture that can provide services for people in time can use humanistic care to improve the sub-health

state of residents [1]. Therefore, it is of great significance to apply emotional design to outdoor furniture design.

### **3. The Emotional Design Principles of Outdoor Furniture**

#### **3.1. Take the Demand Center as the Principle**

A good furniture product can bring relaxing experience to people, but in the final analysis, the starting point of designing products should be from the perspective of people's needs, so the significance of studying furniture modeling is lower than that of emotional design. Pay attention to people's physiological and psychological needs with demand as the center. For example, the original intention of the height design of park seats is to relieve people's leg fatigue. If the height does not conform to ergonomics, it will make the legs feel sore and affect the user experience. Therefore, people's physiological needs should be considered when designing seats; The width and length of park seats should also be considered in place. After all, the park is an open place, and the length of two or three people sitting together is just right. If the seats are too long, more strangers will gather, which will destroy the privacy needs of users.

#### **3.2. Consistency with the Environment is the Principle**

As more and more people begin to go outdoors, the connection between the external space of outdoor furniture is gradually enhanced, which requires the consistency between outdoor furniture and the surrounding environment, so as not to cause users to resent or feel abrupt outdoors. However, at this stage, there are still many designers who pay more attention to subjective feelings and ignore objectivity, which leads to many outdoor furniture appearing abrupt. Even if furniture can satisfy aesthetics and practicality, it is also a defective product because it cannot be integrated into the local environment.

#### **3.3. The Principle of Interest**

Interest can reflect the interest of life, inject vitality into design, mediate people's bored mood, and bring people a higher level of spiritual enjoyment. Interest can be shaped by simulation and bionic methods. For example, the benches in the park can be designed as rattan winding, which makes people feel the charm of nature and the vitality of life, or the benches can be designed as cut fruits to show interest.

### **4. The Thinking Mode of Emotional Design of Outdoor Furniture**

#### **4.1. Think About the Value of Outdoor Furniture**

Outdoor furniture designers should take the initiative to go outdoors and experience outdoor life, because inspiration comes from life. They can go to tourist areas, parks and squares and other areas with large traffic, observe their behavior habits, find out people's emotional needs for outdoor furniture, and realize their diversified values. For example, why do seats in scenic spots have different distances? Seats are usually not designed at the distance from the entrance and exit, so there is a huge flow of people here, which will cause congestion, while seats designed halfway can provide people with a rest area.

#### **4.2. It Can Stimulate People's Emotions**

People's emotional stimulation often comes out when their emotions resonate. For example, when they are in a foreign land and see something consistent with their hometown culture, they will feel relaxed. For a nation, it has its own cultural connotation, so designers should take the initiative to understand and study the local residents' culture, humanistic emotion, cultural heritage, etc., and put these ideas into the furniture design outside the home. In addition, we should be open, Actively embrace foreign cultures, Absorb the essence from different cultures,

and then integrate it into local outdoor furniture design, so as to promote the development of outdoor furniture industry, so that outdoor furniture products consistent with it can appear in every era, so as to open up ideas in design and create outdoor furniture that can better meet people's needs and have rich cultural heritage.

### **4.3. Pay Attention to the Development of People's Personality**

This is a high-level requirement of outdoor furniture. More emphasis is placed on whether people's individual emotions can be tapped. Individualized outdoor furniture can bring visual impact and emotional resonance to people. In the outdoor furniture market, there will be many products with unique shapes to meet the emotional needs of special people, and at the same time, it will bring deep impression to other people. With the progress of the times, people's aesthetics have been gradually improved. At this time, it is also an innovation to design personalized and representative outdoor furniture to cater to people's hearts and stimulate them.

## **5. The Elements of Emotional Design of Outdoor Furniture**

### **5.1. Color Emotional Elements**

Designers should learn color psychology and apply their knowledge to design, which can effectively stimulate people's hearts. For example, green represents hope and green, which can relieve the mood; Red represents excitement and enthusiasm, which can stimulate vitality; Blue represents tranquility and nature, and can calm the mood. Color itself has certain emotions, and putting it in a suitable place can meet people's emotional needs. In addition, coordinated color matching can make people feel happy. On the contrary, if it is not coordinated, it will cause people's disgust. For example, in outdoor leisure areas, color matching with color jumping can be used to show movement, instead of using a single color; Outdoor seats can use warm colors, which will warm people's hearts and spleen when the sun shines [2].

### **5.2. Texture and Emotional Elements**

Different textures can convey different feelings and bring different energy to people. For example, wood will appear warm, glass will appear clean, rock will appear heavy and so on. The texture of outdoor furniture is divided into two kinds: touch and visual sense. The former is in direct contact with the human body, and its touch thickness, heat and cold can make people feel it for the first time; The latter is related to the individual's life experience, which will resonate emotionally when seen, and its color and shape can stimulate people's hearts.

### **5.3. Emotional Elements of Modeling**

Points, lines and planes constitute a three-dimensional space, and different curved lines can convey different aesthetic feelings and aura, for example, straight lines represent neatness, curves represent elegance, irregular lines represent personality and so on. Outdoor furniture with novel personality will bring excitement and freshness to people, while the use of ordinary outdoor furniture will bring dull feeling or indifferent experience. For example, a round football can be designed beside the football field to wait, stimulate people's association, and be more passionate and energetic in the process of playing football, so as to have a deep memory of this stadium and fall in love with outdoor sports. In addition, different styles of outdoor furniture will also present different shapes. For example, European style conveys noble temperament with bright colors, such as purple and white, while Chinese outdoor furniture conveys simple temperament with light colors, such as light yellow and light green.

#### 5.4. Decorate Emotional Elements

Reasonable beautification of outdoor furniture can change the atmosphere of the whole environment. For example, graffiti is done on the wall, illustrations are drawn on the pillars, and people's mood is relieved through artistic processing. Outdoor furniture can be decorated by inlaying, carving and other processing, while decorative emotion is composed of materials, colors, patterns and other factors. For example, ceramics represent simplicity and elegance, metal represents hardness and coldness, and glass represents purity. In addition, outdoor furniture can be matched with other plants to get a fuller emotional experience. For example, sunflowers can be planted beside park seats, conveying sunny and optimistic emotions.

#### 6. Conclusion

Emotion is a kind of ideology, which is influenced by personal will and external factors, and it is difficult to measure and evaluate with a unified standard. It is worth mentioning that, At present, outdoor furniture has not formed a complete system in China, and many concepts are vague. Because the author's research and access to materials in this field are limited, it will have subjective consciousness and limitations, and it is necessary for peers to carry out research together. I hope this paper can play a role in attracting jade and bring multi-dimensional thinking to future outdoor furniture designers.

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