

# Research on Interior Design under the Guidance of Auditory Sensory Experience

Xiaoxiao Liang

Beihai College of Art and Design, Beihai 536000, China

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**Abstract:** Based on the boredom of visual sense and the improvement of people's demand for environmental comfort, more designers began to look for new design inspiration, and emphasized the satisfaction of people's comprehensive sensory experience from the perspective of humanity. This paper takes people's auditory sensory experience as the background, takes interior design as the research object, analyzes the characteristics of people's sensory cognition from the perspective of hearing, and explores the strategies for creating auditory sensory experience in interior design.

**Keywords:** Auditory sensory design; Interior design; Construct

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## 1. Overview

In order to capture people's attention at the first time, designers in the performance of the design experience, more from the visual perspective to give customers sensory stimulation, the sense of hearing is ignored, so when people in the visual memory gradually fades, the experience of indoor space hearing is only that noisy pop song. Sound plays an important role in guiding and defining people's sense of space and volume, and even the memory in the brain. It can more truly reflect the environment of the body, affect the body's emotions, and directly strike the depths of the mind. In the field of interior design, the era dominated by visual experience has begun to change, but the current interior design still has the following problems:

### 1.1 The pursuit of visual perception experience

Although the interior design style and design techniques have been displayed differently in different forms under different political, economic, cultural and regional conditions, the social definition of comfort is more reflected in the visual experience, and to measure and evaluate the brilliance of the interior space environment design or not, this single and one-sided pursuit leads to the lack of people in the current interior design Sexual care.

### 1.2 Sensory design lacks attention to the needs of different groups

For interior designers and users, good design should be universal. It should not only pay attention to ordinary people, but also pay attention to the psychological and physiological needs of vulnerable groups, so as to meet the audience at different levels of use as much as possible. Vulnerable groups are an important part of the social structure, and the development of the society cannot be separated from the contribution and contribution of all people, so we should attach importance to different people The need for sensory sensations in different environments.

## 2. Strategies for constructing hearing

The sound of the indoor environment is roughly divided into two kinds: one is the natural sound, such as wind, rain, water

and other non-artificial sounds. The other is artificial sound, that is, unnatural sounds such as crying, laughter, and Musical Instruments.

## **2.1 Reproduction of natural sound field**

The rapid development of the city has greatly changed the living environment of people. In the indifferent steel forest, they are gradually separated from nature. The ubiquitous artificial and disturbing noise fills people's lives, and the sharp and noisy sound hits the nerves of every person living in the city, bringing them great pressure. In the human body in the noise environment for a long time, the mood will become uneasy and anxious, and the body's immunity and metabolism will be unbalanced. Human beings are naturally inclined to seek the connection with nature, and the sound of birds, water, wind and rain in nature has a healing effect on human hearts. The colder and bigger our cities are, the more bizarre and dazzling and noisy they are, the farther away people are from nature, and the more they cannot feel the rustle of the willow in the early spring breeze, the tick of the rain on the plantain in the summer night, the click of the frost leaves in the late autumn, and the sound of the rain on the trees. The creaking sound of deep winter snow.

## **2.2 Construction of artificial sound field**

In recent years, many studies have proved that sound has a huge impact on human health, and it is easy to contract diseases under noise environment. Tranquility is of great significance to mental health. Quiet is a relatively calm state, rather than complete silence, it can make many subtle auditory experience can be realized, and drive other senses, such as vision, smell, etc. Quiet sound can protect and treat people's spirit, for designers, the introduction of spiritual healing soundscape makes the sound experience in the indoor environment more harmonious and beautiful, so in the treatment of soundscape in the indoor environment When viewing, attention should be paid to eliminating or isolating noise, based on a calm sound environment, distinguish between different occasions and periods of sound field construction, such as the background music in the dining environment should be soft and smooth, and the sound field environment should be shaped to complement the atmosphere but not to overwhelm the main audience, but the sound inside the theater should consider the effective transmission of sound.

## **3. Design and application of auditory senses**

The perception of the auditory organs has great randomness - the randomness of the receiver and the randomness of the sound source. The deafening pop music played in the room completely covers the birdsong and the sound of water outside the window. Because of the lack of clear organization and specificity, the receiver will have a poor experience and even become bored. Here, we can divide the indoor hearing experience by time according to the indoor and outdoor noise standards, which can be divided into natural sound period and artificial sound period. The two periods are designed with different sound field effects, so that tourists can enjoy nature without losing their comfort.

### **3.1 Introduction of natural sound**

The building naturally has a wonderful natural sound: the sound of flowing water, the splash of fish jumping in the water, the rustle of the breeze in the leaves, the crisp chirping of birds in the branches, etc. The pure natural sound presents a three-dimensional natural scene, and the natural sound has the effect of soothing people, so in the non-noisy period, keep the indoor quiet, the natural "sound field" will be the indoor environment Surrounded by the sounds of nature, it brings inner peace and relaxation to visitors.

### **3.2 Construction of artificial sound**

Because of its characteristics, natural sound is easily covered by artificial sound, so in this case, the addition of artificial sound is

very important. Porous plates and slabs can be used indoors, and the characteristics of their materials can make the indoor sound field more rich in texture. Whether it is singing or musical instrument sound, indoor sound atmosphere can be well created through artificial indoor sound setting. The front, back, high and low are designed and matched, and the traditional Chinese classical instrumental music is played in line with the overall atmosphere, which is pleasant and sets off the atmosphere and covers the noise, and also protects the privacy of customers when talking, presenting a mild, friendly and comfortable sound experience for tourists and improving the quality of the sound field in the interior.

#### **4. Conclusion**

Interior design led by auditory sensory experience is a new design idea to explore the relationship and harmonious coexistence among people, architectural space and natural environment. The design of auditory sensory experience is not the embodiment of a certain design style, but a design way to meet people's sensory needs for the environment on the basis of humanized design. The richness of sensory experience is conducive to mobilizing the common memory of human brain and body, stimulating people's inner emotions, and establishing good and deep interaction between indoor space environment and people.

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#### **About the author:**

Xiaoxiao Liang (1993.12 -), female, Zhuang nationality, native place: Nanning, Guangxi, School of Architecture and Environmental Art, Beihai University of Art and Design, unrated.