On the Application and Psychological Effect of Color in Interior Design

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Abstract
With the development of society, color has gradually become an indispensable part of daily life. Its application in interior space design has different effects on people's psychology, and this basically depends on the collocation of colour and its different space application function. In modern society, people's quality of life has gradually improved, the pursuit of fashion and personality is more and more common, at the same time, the psychological effect of space has become unique. The reason why people pay more attention to the color design of indoor space is that all kinds of space design fill living conditions and meet people's individualized needs. It is precisely because people gradually pay attention to color, so that it has been very widely used in the field of life. How to better indoor space design with color, better serve the residents, is the main content of this paper.

Keywords
Color; Interior design; Psychological effect; Application

Introduction

Color is all over people's life, and has become an important part of life. Colors in interior spaces can help people adapt and feel the world better. Do a good job of color collocation, improve the value of color application, will be able to be perfectly integrated into the living space, so that residents can have a comfortable life and living experience. However, whether it is color matching or color selection, it will produce different light and shade or emotional experience. Therefore, in order to have a good space experience, it is necessary to conduct a comprehensive analysis of the application of color in interior design and the possible psychological effects. Based on the actual situation and following the application principle of color in interior design, this study analyzes the interior application and psychological effect of color (Liu, 2021).

Principles of color in interior design

In the process of interior color design, in addition to the design of its specific facade shape, but also in the choice of color and materials to highlight its important position. For the interior color, the overall collocation is important, so to strengthen the visual center effect, not only need to specific indoor space for inspection, but also need to follow certain color collocation principles. This paper summarizes three principles of color application in interior design through investigation and study: (1) to meet the space demand; (2) to respond to the outside and the inside; (3) to coordinate and match the inside color.

Space Demand

Different people have different needs for space color, and it is people's various needs that promote the progress of space color design, the emergence of different space color selection and collocation style (Tang, Hu & Shu, 2021). This is mainly because in the space of different function, the demand of color is different, the atmosphere that builds and visual effect also is different. For interior design, to meet the needs of space must be based on the main functions of indoor space, as well as the overall situation of the building to color collocation, to adapt to light and dark, cold and warm appropriate atmosphere. For example, the office is an important place for work, so it needs a quiet and elegant environment, and cold color is the most appropriate choice.

Respond Inside and Outside

In the interior space design, the choice of color can not only refer to one aspect to match, but also need to consider the outdoor environment of the building, and integrate the natural color into the interior color design, so as to realize the close relationship between human and nature. The colors in nature are very rich, especially green, which can make people feel relaxed and quiet. Therefore, the natural colors and interior design echo each other, which can bring people a relaxed and natural feeling (Jin, 2020). The living room is the place where the host and guests meet and talk, and it is also the space that people use most often, therefore, choosing log furniture as far as possible can not only reduce the harm of chemical components, but also improve people's comfort, and realize the echo between indoor and outdoor.

Interior Color Coordination

The choice of interior color can affect indoor mildness, but indoor color collocation can affect indoor whole atmosphere however. In addition to the overall color space, indoor lighting, furniture, wall color will affect people's mood, so how to choose indoor color, need to refer to many aspects

of the space for color collocation. For example, indoor daylighting and furniture layout of these two factors on the impact of the overall indoor space is relatively large, so must be coordinated, for the lack of light in the room can be appropriate to improve the brightness of the wall, choose white or off-white. In addition to the color between the collocation, but also need to consider the color and decoration coordination, so as to meet the overall indoor space comfort requirements. To sum up, in the interior design, we need to follow the coordination principle of indoor color collocation (Yang, Sha & Li, 2020).

Application of Color in Interior Design

Application of Color in Different Functional Areas

Harmonious color collocation can make the individuality and characteristics of the space can be highlighted, and the application of color in different functional areas has improved its actual value. Interior space includes: living room, study room, dining room, bedroom, bathroom, children's room, elderly room, different functional area is different to colorific application.

The living room is the main activity place of a family and also the place for entertaining guests, so we should emphasize the coordination and unity of color collocation, which not only needs to reflect the value of color, also need to meet the host and guests in the living room when the rest of the requirements. Therefore, sufficient light, spacious and bright should be achieved to create a comfortable and relaxed feeling (Yu, 2012). The study room is an important place for the host to work, which needs to be comfortable and bright. Warm colors should be selected as far as possible in the design to avoid visual fatigue caused by too dark or too bright light. The dining room is the place to eat, and it needs to arouse people's appetite through color. The bedroom is a place of rest, the environment requires warm and comfortable, but also helps sleep, especially the old man bedroom, you can choose light blue, avoid the use of too bright colors, but children's room design can choose more lively colors. Bathroom is the space that public uses, need assures close close and safety, it is the necessary place in everyone's life, need is given priority to with concise and bright.

Application of Color in Different Components

The interior of the room is mainly composed of the ground, metope, lamplight, ceiling, in the color design, the need to undertake reasonable collocation and combination of the above parts, so as to improve the overall effect of interior design. First, the ground color design needs to choose more stable, simple colors, but need to echo the wall color, reduce the visual abrupt (Li, Zhang & Lu, 2018). Second, wall color design. Wall is the largest part of an indoor space, is also the most important background of the whole space, if the color is too bright, will affect people's vision and

mood, so it is necessary to choose a more calm color, or according to the actual needs of reasonable choice.Third, lighting design. Lamplight is the main part that decides space light and shade, when undertaking lamplight design, application color collocation raises the use effect of lamplight. Fourth, ceiling design. When the ceiling is undertaking color design, need to choose the color with lower purity, improve the wide and open sex of space whole.

Application of Color in the Overall Arrangement of Interior Space

When selecting a space color, you need to take into account the integrity of the space. A wide range of design styles are a gradual development process, usually subject to various factors. When collar design, you need to make a harmonious unity based on specific needs in terms of color, matching, material, and placement, etc., ensuring that color matching, maximizing spatial personality and utilization.

Analysis of Psychological Effect of Color

The color design of interior space can affect people's emotion through vision, and then form psychological effect. However, through the investigation, it is found that color has no direct connection with people's emotions, but when people are in a certain environment, they will arouse the impression of experience and experience because of color, and then resonate with color psychologically. In order to better meet people's emotional experience when living, this paper investigates and analyzes the reasons for the psychological effects of color design, and finds that the psychological effects caused by color mainly include two aspects: (1) Physical Role of Color; (2) Color and Emotional Association.

Physical Role of Color

Color stimulates human cerebral cortex through vision, and acts on central cells to affect human physical sensation. Physical sensation mainly includes the feeling of cold and warm, distance and weight, which are all psychological effects caused by the physical effect of color (Qin, Huang & Bao, 2015). First of all, cold and warm mainly refers to the choice and collocation of colors, which will be transmitted to the cerebral cortex through vision, promote the excitation of temperature receptors, display certain temperature sensing signals, and then affect the choice of colors. Secondly, color combination can give people a sense of distance. For example, in a room of the same size, warm colors or colors with high purity will give people a sense of distance, while cool colors or colors with low purity will give people a sense of distance. Finally, the main factors that determine the color weight are the color purity and lightness. The space with high purity will give people a relaxed and energetic feeling, while the space with low purity is the opposite.

Color and Emotional Association

The application of color in interior design is also related to emotional association. For example, red will give people a strong sense of visual impact, easy to attract people's attention, more used for some warning signs; Green is full of vitality, symbolizing the power of life and nature, which can relieve fatigue and stabilize emotions; Blue, a symbol of purity, will give people a sense of openness and stability; Black is darker, which makes people feel solemn (Li, 2019).

Conclusion

To sum up, the application of color in interior design involves many aspects, whether it is the principle of color matching, or the psychological effect on people, it is worth studying. Through the above research and analysis, the article found that in order to improve the application value of color in interior space design, we can not ignore the effect of color matching. This effect caused by the particularity and sensitivity of color will produce different effect in different background environment. At the same time, it can not only affect people's emotions and emotions, but also produce certain physical effects. Designers need to present a harmonious interior decoration effect through reasonable color matching.

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