

The Application of Contemporary Humanistic Spirit on the Design of Modern Household Products

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Abstract: Fully understand the connotation of the humanistic spirit and study the application of contemporary humanistic spirit in the design of modern household products. Based on the principles of ergonomics and design psychology, the researches are conducted separately through the flexible combination of home design, color design, material design and home furnishing products, and then summarize. The spirit of contemporary humanism in the design of home furnishing products can achieve diversified designs through flexible and variable shapes, colors that meet the needs of different groups of people, and materials with moderately rich texture and softness, which can bring spiritual satisfaction to people with different needs and improve their lives. quality. The design of modern home furnishing products should be based on people, satisfying people's behavioral activities and emotional experience. The designer is required to fully consider the user's psychological and physical characteristics. Satisfying the principles of ergonomics, comprehensively considering people, environment and home, and adhering to the "people-oriented" philosophy, can play a certain role in promoting the progress of home design and living space design.

1. Introduction

At this stage, the contemporary humanistic spirit is integrated into the design of household products, art and technology are highly unified, combined with ergonomics, psychology, behavior, etc., and the interaction between people, household products and the environment is fully considered, and then the interaction between people, household products and the environment is Designs that meet the needs of the crowd and improve the quality of life have become the trend of social development. Based on this, through the analysis of indoor home furnishing styles, colors, materials and flexible combinations of home furnishings, the application of humanistic spirit is studied.

2. Overview of Contemporary Humanistic Spirit

2.1 The Connotation of Contemporary Humanistic Spirit

The contemporary humanistic spirit is a phenomenon unique to human society and symbolizes the scale of intelligent life. It carries thousands of years of wisdom, embodies moral feelings, and embodies self-care. At the same time, the humanistic spirit is also the inner pursuit of value, dignity, convenience, comfort and quality. [1]

In the design of household products, the humanistic spirit unifies art and technology, and combines the principles of ergonomics, psychology, behavior, etc., and fully considers body size, space environment and lifestyle habits, and strives to optimize the product so that People use it more conveniently, with more complete functions, and at the same time add a certain beauty and feelings of the product, balance the emotional alienation brought by scientific progress, make the product more humane, and let users get greater spiritual satisfaction.

2.2 The Relationship between Humanistic Spirit and Modern Household Product Design

The integration of humanistic spirit into the design of modern home furnishing products is a sign

of progress in product design and also a trend of social development. At this stage, people's demand for products is not only the satisfaction of basic functions, but also more attention to spiritual satisfaction and cultural taste. [2] Modern home furnishing products can meet the various needs of people's daily life. While satisfying the basic functions, they can also fully realize the happiness brought by home furnishing products. This puts forward a higher level of home furnishing product design. Requirements, this requires designers to look into the needs of people's lives for different users, pay attention to the comfort, mobility, and versatility of household products, and integrate humanistic elements into them, from the form, color, and material of household products And find the emotional resonance point in style and improve people's quality of life. The elements of humanistic spirit can be divided into the following parts: the psychological basis of home product design, ergonomic principles, home style, home color and home materials, as shown in Fig. 1.

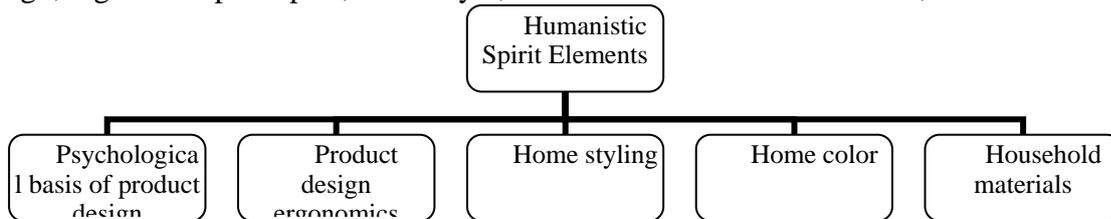


Fig.1 Classification of Humanistic Spirit Elements

3. The Basis for Integrating the Humanistic Spirit into the Design of Household Products

3.1 Basis of Design Psychology

American cognitive psychologist Donald A. Norman mentioned in the book: “Design is actually a communication process, and designers must have a deep understanding of the object of communication.” Therefore, design is based on psychology. Yes, by analyzing consumers’ psychological processes and behavioral relationships to design corresponding products, the connotation of the humanistic spirit can be better reflected.

The product is used by different users. Designers must first understand the psychological state of the design object, and the psychological state of the user groups of different age groups is also different. For example, children’s household products should conform to the laws of children’s psychological development. This group is in the stage of exploration and cognition, with strong curiosity, liveliness, and rapid growth and development. When designing products, attention should be paid to safety, intelligence, and styling. Interesting, flexible color and adjustable size. However, due to slow movement, decreased vision, and a calm mentality, most of the elderly tend to prefer some more stable styles of home furnishing products, and they often use rounded angles in their shapes. At present, many home furnishing products have their own functions to assist the elderly to move, reflecting Caring for the elderly.

Aesthetic psychology is based on the growth of age and is also inseparable from the living environment. Many life forms in nature are beautiful things for most people. At present, many home styles express thoughts and emotions through nature's bionic design, which arouses the resonance of users, and the expressions include partial simulations and overall expressions. As shown in Fig. 2, the styling chair is inspired by the folds and emission texture of the petals, which gives people a comfortable and soft feeling, and has affinity, which increases the fun of people's experience.



Fig.2 Petal Chair with Bionic Design

3.2 Ergonomics Basis

Ergonomics is the science that studies the interaction between humans and the environment. The relationship between humanistic spirit and ergonomics is mainly manifested in: ergonomics is the basis for the integration of humanistic spirit into the design of household products. Creating a healthy and comfortable living environment requires ergonomics to grasp the shape and size of household products.

In a day, people spend almost half of their time dealing with household products. In addition to considering people's physical and psychological needs, product design should also take into account people's working environment, safety, and health. This is because modern People work under a lot of pressure. For many office workers, facing the computer for a long time or working overtime, the body cannot be effectively relaxed, which often leads to many health problems such as muscle strain. This requires designers to combine ergonomics and analysis. The environment where people live, including the effects of lighting, colors, materials, etc. on people, provides a basis for integrating the humanistic spirit into the design of home products.

Different household products have different design standards according to the environment. For example, the sofa is relatively large and the filling material is soft, which is mainly used for lying and relaxing; most office chairs are soft in the middle and hard on both sides. In order to facilitate the movement, they are often equipped with pulleys. Wait. Based on ergonomics, the humanistic spirit is integrated into household products, and the ultimate goal is to improve some of the unfavorable factors that the environment brings to people, embodying people-oriented. [4] The office chair on wheels as shown in Fig. 3 is designed to cater to the size of the human body, emphasizing user-centeredness and material. Its characteristic is that the height of the bracket can be flexibly adjusted, allowing users to move freely and relax, which is a full embodiment of contemporary humanistic spirit in the design.



Fig.3 The Office Chair Designed by Studio Fifield

4. The Application of Contemporary Humanistic Spirit in Modern Household Products

4.1 Humanistic Spirit in Home Styling

Modern home modeling infiltrates the concept of geometry, based on ergonomics, with physical and psychological satisfaction as the goal, and a flexible and changeable shape based on points, lines and surfaces. In the home styling, the dots, lines and planes are fully coordinated, and the dots in the home have the function of size and direction, embellishment and focus. The line is a movement of dots, it is directional, has passionate emotions and contains rationality. It can be described as rigid and flexible. Some designers use the line as the language symbol of home design, incorporating traditional culture, craftsmanship, and patterns into it to interpret. The three-dimensional effect gives people a bright feeling. This is not only a styling design, but also an expression of the humanistic spirit and artistic value. [5] The surface in the home design is the result of the continuous expansion of points and the repeated continuous surface, including flat surfaces, curved surfaces, and inclined surfaces. The circular surface and curved surface give people a full and relaxed psychological feeling, while the rectangular surface makes people feel stable and dignified. For example, the cotton candy sofa designed by American pop designer George Nelson makes full use of geometric shapes for flexible combinations.

Therefore, the humanistic spirit contained in modern home styles is mainly reflected in “variability”. Appropriate changes can be made without destroying the inherent form. Through this change, the use of household products can be optimized to meet people's various needs. . In different living spaces, designers can use flexible and eclectic methods to arrange the home space and show the individuality of the space according to the needs of users. At the same time, there should be room to consider whether its variability can adapt to social development and changes in family structure in different periods. For example, a couple will adjust their home space before and after giving birth, possibly turning a sofa into a sofa. Bed, or living with the elderly, the space needs another change, which may turn ordinary lockers into wardrobes. For this kind of space with special needs, the variability into the humanistic spirit is even more important.

4.2 Humanistic Spirit in Home Color

The humanistic spirit of colors in household products in different spaces is embodied in that colors themselves have symbolic meaning and contain humanistic emotions. Because the viewer's life experience, visual experience and other factors and colors interact with each other, different colors will bring different colors to people. Different visual experience will bring different psychological feelings. For example, red will make people feel enthusiastic, yellow will make people feel brilliant and noble, and blue will often give people a sense of melancholy and tranquility. In different space environments, color matching will also be different. Through color adjustment, small spaces can look more warm and spacious, and large spaces can look fuller and more coordinated.

For example, in larger villa spaces, there are a wide range of color choices. European-style home furnishing products are mostly golden and beige; while Chinese-style home furnishing products are mostly brown and dark red. In small and medium-sized rooms, if the walls and floors are mainly dark, you should choose some brightly colored decorations as embellishments, especially small spaces with low floors, which are prone to insufficient lighting. If the overall space is used too deep The color will appear more narrow. [6] Fig. 4 is a case of color matching in a small apartment home environment. The small room space is mainly colored in deep-washed blue. The wall is painted with a unique pattern in white, and then the beige and coffee-colored ecological wood with higher brightness are used. As an embellishment, the contrast of light and dark colors stretches the length of the space. The writing desk is a retractable partition, the stool is simple in shape, the position next to the window is surrounded by ecological wooden boards, and the wall sauna board is designed with hooks to put many small objects on the ground. The sauna board can also be used to lie down and rest. The overall environment creates a natural breath through color, which helps relieve the fatigue of a working day and reflects the connotation of contemporary humanistic spirit.



Fig.4 Color Matching in a Small Apartment Home Environment

The humanistic spirit of colors in household products among different users is mainly reflected in the fact that according to age and gender differences, through color settings, users can maintain a positive attitude and feel the inner joy brought by the family environment. [7] Taking the color matching of children's room as an example, the color saturation and brightness of household products in the children's room can be appropriately increased to increase the flexibility of the space. The children's study area can use light blue or light pink to create a warm and peaceful atmosphere for children's entertainment. The area can be used in orange, red or blue-purple to create an atmosphere of passionate movement. The color of children's space is more vivid, because children are more sensitive to colors than images, shapes, etc. at the age of children. Childhood is a beautiful period of colorful colors. A good home environment color helps children form a good psychology. .

When setting colors for children's rooms, factors such as gender and ergonomics should also be considered comprehensively. For example, boys prefer tones such as blue and green, while girls prefer princess-like colors such as pink and purple; Children are young and have a weak sense of self-protection. The corners of the home styling should be chamfered to prevent bruising. The size and height of home products should also be smaller than adults. As the elderly, they tend to pay more attention to the humanized experience of household products, and are more inclined to stable, simple, and restrained home color settings.

4.3 Humanistic Spirit in Household Materials

Modern household materials are generally divided into natural materials and man-made materials. Different materials will bring people different inner feelings. Natural materials such as cotton, linen, rattan and other natural materials will make people feel soft and environmentally friendly. Fabric sofas can make the human body feel happy. Relax, while metal or plastic chairs can make people feel cold and serious, and solid wood furniture with silk fabrics can make people feel retro and gorgeous. At the same time, the material and the color are interdependent, and the material expresses a rich and unique texture through the color, and the color can convey the emotion contained in the humanistic spirit through the material. [8] As shown in Fig. 5, the household products called lazy fabric sofas are simple in shape, filled with soft cotton wool and matched with warm colors, making people feel comfortable and relaxing.



Fig.5 Lazy Fabric Sofa

Fig. 6 shows the soft bed design work of Ernesto Leto, Brazil. This model effectively blends material and color, and combines the two soft textures of yarn material and cotton in a clever way. Fabric cushioning The middle is filled with soft cotton, presenting a natural fall, increasing the layering and richness of the texture, and giving people a relaxed and free psychological feeling. Starting with soft materials, the artist explores tough materials that can express dreamy scenes, and the rendering of pink green and pink adds a certain sense of romance, and fully considers the placement, size, location, and color of the soft bed. Different effects produced by factors such as contrast. The green gauze is a slip-through made of yarn material that rotates around under the traction of a round rope. The pink cotton padding is very soft, people lie down naturally, like a huge bed, giving people a warm and comfortable feeling, the combination of different soft materials can increase the practicality and interactive functions, and arouse the sympathy of the experienter. It embodies the connotation of the humanistic spirit.

Therefore, the humanistic spirit in home furnishing materials is mainly reflected in the fact that people can enjoy the artistic conception of returning to the original through natural materials, and they can also feel the beauty of fashion brought by technological progress through artificial materials, and then perceive the vitality contained in the materials.



Fig.6 The Soft Bed Design of Ernesto Leto, Brazil

4.4 The Storage Style and Flexible Combination of the Home Reflect the Humanistic Spirit

The integration of humanistic spirit into home furnishing products can also be expressed through the flexibility of home furnishings. Flexible home furnishing products can “haze” the boundary of space. “Haze” is a kind of variable expression of space with uncertain functions. , That is, a space has multiple uses, and different functions play different roles. [9] For example, in some relatively compact space environments, a sofa bed can be used to create a living room space. When you need to rest at night, the sofa bed can be stretched out and used as a bedroom. Another example is a tatami bed, which can store a lot of sundries and can also be used as a bed for sleeping. Some tatami mats can have a partition in the center. When the partition rises upwards, it can be used as a tea

table, and a bamboo-woven Japanese futon is placed next to it. It can play the role of receiving guests, and the partition can be used as a bed if the partition is lowered.

In some small and medium-sized home environments, due to the limited horizontal space for living, the use of vertical space for storage and arrangement of changes and combinations can better reflect the cultural connotation. Storage furniture can be foldable, telescopic, suspended, rolling, embedded and other transformation methods, following the principle of overall unity of style, creating a second and third space in a limited space environment, realizing quiet There are dynamic, changing and diverse spatial forms. The card seat sofa shown in Fig. 7 can not only meet the function of the sofa, but also use the space below for storage, put some seasonal shoes and infrequent items, and can also add a sponge cushion to the card seat to make people It's more comfortable to sit on.

The humanistic spirit of the storage and flexible combination of household products is reflected in the fact that the storage and flexible combination of the home can save space and maximize the functionality of the storage home, which can improve people's quality of life and mood of use, and increase the happiness of life.



Fig.7 Card Seat Sofa

5. Conclusion

The integration of contemporary humanistic spirit into home product design is the trend of social development. The home product design that embodies the connotation of humanistic spirit not only satisfies human behavior and activities, but also allows users to truly experience a comfortable and pleasant home culture. This experience can be classified as Two aspects are satisfaction of behavioral experience and spiritual satisfaction. In terms of behavioral experience, rationally plan the shape, color, and material of home furnishing products. According to the principles of ergonomics, combined with ventilation and lighting, space height and use functions, optimized adjustments can achieve the best experience; the other level is spiritual satisfaction , Spiritual satisfaction is mainly reflected in people's sensory needs, such as whether the living environment decoration is beautiful, whether the color is reasonable, whether the furnishings such as furniture fabrics, lamps and crafts have a sense of art and culture. Therefore, paying attention to the creation of humanistic spirit in the integrity and details of household products is an effective way to elevate this experience to the spiritual level, and it can also provide a better theoretical basis for future designs.

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