
Exploring the Implementation of Multimedia Technology in Contemporary Home Product Design for Regional Culture Inheritance and Innovation

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Abstract

In recent years, the design market in China for household products has seen a surge in scale and speed. This shift has taken place from a decoration market to a design market. There is now a wide range of styles available for modern home product designs, with Western design styles becoming increasingly popular. However, it has been noticed that some domestic designers have followed the principles of modernism, minimalism, and high-techism, and this has resulted in many designs being created by simple copying of computer-generated designs, without much thought. This approach has led to the loss of the individuality of modern home product design styles. A modern household product design with an elegant taste and extraordinary style is not solely dependent on how much money is spent and how many high-grade decorative materials are used. It is important to combine regional culture with the appropriate use of the elements of modern household product design. It is also essential to create a fully functional, beautiful, generous, and elegant style for indoor environments with limited room space. Regional modern household product design refers to the combination of the local natural environment and cultural environment. It emphasizes local characteristics and national style, and the nationalization of modern household product design and creation tendency. In the design process, local materials and practices should be used as much as possible to display the characteristics of local conditions and merge the overall style with the local environment. To achieve this goal, it is essential to consider the region fully. Regional modern household product design can create a unique and individual design style. The use of local materials and practices will enable the design to reflect the characteristics of the local environment, resulting in a cohesive style. The use of regional culture and local elements will make the design more attractive to potential customers. Therefore, it is necessary to focus on creating a unique style of modern household product design, which combines regional culture with modern design elements.

Keywords: Multimedia Technology, Regional Culture, Modern Home Products, Heritage and Innovation

1. Introduction

The statement "Man is the product of the environment" highlights the crucial role of the environment in shaping an individual's personality and characteristics. Similarly, the Chinese furniture is also a product of its environment, which has led to the formation of its regional characteristics and unique national identity. China's diverse topography, including plateaus, plains, basins, and rivers and mountains, has contributed to the formation of regional features of Chinese furniture [1]. The Chinese people's lifestyle, culture, and character are also intertwined with the country's vast landscape. The geographical fate of Chinese furniture is closely related to China's rich and varied topography, which is reflected in its shape, types, modeling, decoration, and materials [2].

The regional environment is the foundation of all things, and any design cannot be isolated from environmental factors. Throughout human history, the concept of home has been shaped by the specific regional environment, which

has influenced human life and lifestyle [3]. China's cultural concept of "the unity of nature and man" has played a significant role in establishing the idea of local conditions and coordinated development. The unique habitat factors of Chinese furniture are promoted by the difference in topography, geomorphology, climate, humanities, economy, and society.

The regional characteristic of Chinese furniture is an important aspect of its national culture. China's vast land and its unique topography, rivers, and mountains have contributed to the development of different furniture styles in various regions [4]. These styles reflect the local customs and lifestyles, highlighting the diversity and richness of Chinese culture. The concept of local conditions has also led to the creation of different types of furniture for different purposes, such as for seating, sleeping, and storage. The materials used in furniture making are also influenced by the regional environment, such as the availability of wood, bamboo, and other materials [5].

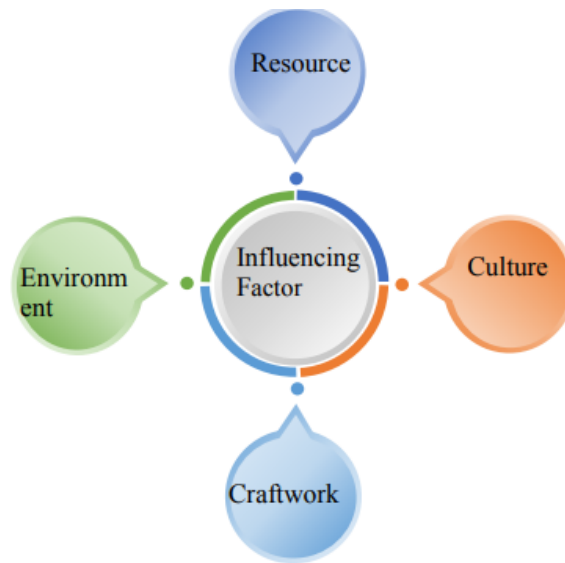


Figure 1. Factors affecting the geographical environment.

The process of design involves transforming natural objects into functional and aesthetic objects. The unique natural environment in different regions, including topography, geomorphology, climate, and seasons, results in differences in natural resources. In rural areas, the selection of civil furniture is influenced by the local availability of resources, resulting in variations in furniture materials and styles [6]. Climate is a decisive factor in determining the category of natural resources, and in China, the climate difference between the north and the south is evident. The growth rate of trees varies under different climatic conditions, leading to differences in the appearance and texture of different woods, which affects the final appearance of furniture. The climatic conditions also affect the style of architecture, which contributes to the regional formation of furniture [7].

Design is an integration of culture, as it is influenced by the natural environment and way of life, which in turn affects the cultural spirit. In China, the unique geographical environment has resulted in the distinct farming culture of the Chinese nation, characterized by self-sufficiency and traditional, conservative values. The differences in national customs and habits contribute to the rich and colorful regional personality and style of Chinese furniture. Chinese furniture technology is diverse, as different regions prefer different production techniques based on their strengths. For example, Beijing-style furniture is known for its high production level and luxurious decoration, as skilled craftsmen from all over the country gather in the palace office of the capital to produce furniture for the palace [8].

The regional variation in natural resources, climate, and culture contributes to the diversity of Chinese furniture. The natural environment affects the way of life, and the way of life affects the culture, which influences the design of

furniture. The distinct farming culture of the Chinese nation, as well as the differences in national customs and habits, results in the rich and varied regional personality and style of Chinese furniture [9]. Chinese furniture technology is diverse, and different regions prefer different production techniques based on their strengths. As a result, Chinese furniture is a reflection of the regional culture, history, and lifestyle of the Chinese people.

2. Literature Review

When designing interiors, the use of decorative materials plays a significant role in showcasing regional styles. Every region has its unique natural environment, cultural background, and social characteristics that influence the selection of decorative materials. Therefore, it is essential to select and apply decorative materials according to local conditions to show regional style [10]. The natural environment, such as topography, geomorphology, climate, and season, has a direct impact on the availability of local materials. Therefore, designers should consider using natural materials found in the area, such as local stones, woods, and plants, to bring out the regional characteristics in the design. For instance, if the region is famous for its rich flora, designers should consider using floral patterns and designs on fabrics or wallpapers [11].

In addition to the natural environment, cultural backgrounds and social characteristics are also essential factors to consider when selecting decorative materials. Different regions have different customs and traditions that affect the selection of materials [12]. For example, in regions where traditional arts and crafts are highly valued, designers should consider using local handicrafts and artwork to showcase the region's cultural background. In regions where there is a strong history of ceramics, pottery, or porcelain, incorporating these materials into the design can help bring out the region's unique style. Moreover, the social characteristics of a region also influence the selection of decorative materials. For instance, regions with a vibrant nightlife and entertainment culture might require bright, vibrant colors and flashy designs, while more conservative regions may prefer more subtle, muted designs.

The design of regional interiors should take into account the natural conditions of the area. For instance, Scandinavian countries predominantly use wood as an interior design material due to their cold climate and high forest coverage [13]. The use of local materials for interior design is both affordable and effective in maintaining indoor temperature, resulting in a particularly prominent regional style. Similarly, the use of elm and walnut is common in northern China due to their natural geographical characteristics. In Shanxi province, walnut furniture has become a unique feature of Jin style furniture. In southern provinces along the Yangtze River, bamboo is abundant and widely used in interior design due to the mastery of bamboo utensil making techniques and the unique properties of bamboo materials. The selection of decorative materials should take into account their texture, layers, and functionality. It is essential to have an understanding of the characteristics of various materials, respect their essence, and combine them with the specific environment to create a unique living space. To embody traditional culture and regional characteristics, three factors must be considered when designing an ideal private space.

The first factor is the selection of appropriate materials. The choice of materials should reflect the local environment and culture, ensuring that they harmonize with the surroundings. Secondly, the layout of the space must be carefully considered [14]. The use of space should reflect the local lifestyle and customs, creating a comfortable and functional living environment. Finally, the incorporation of cultural elements is essential. The use of traditional cultural elements in the design can help preserve and promote local culture. In summary, regional interior design should be based on the natural conditions of the area and incorporate local materials, respecting the essence of the materials and combining them skillfully to create a unique living environment. The selection of appropriate

materials, careful consideration of space layout, and incorporation of cultural elements are essential factors to create an ideal private space that reflects traditional culture and regional characteristics.

Table 1. Three considerations for the use of decorative materials

Considerations for the use of materials	The decorative effect of decorative materials is beautiful
	Practicability of decorative materials
	Economic rationality of choosing decoration material

To begin with, the decorative impact of decorative materials is determined by their texture, lines, and colors. The texture should be delicate and realistic, while the colors should be chosen based on the room's intended use and visual effect. Additionally, decorative materials should be able to enhance indoor lighting, temperature, humidity, and provide sound insulation, heat insulation, fire prevention, and pollution prevention [15].

Furthermore, when selecting decorative materials, one must consider their financial capacity, avoid blindly pursuing high-end luxury, and not overspend for a decorative effect that is not directly proportional to the cost. Nowadays, people are more mature and reasonable in their choice of materials, and natural materials with a natural feel have become the primary choice in interior design. Natural wood, natural stone, and other natural materials are the mainstream decorative materials due to the unique visual and tactile sensations they provide, which cannot be replaced by other materials [16].

As a result, the use of these decorative materials can give people a simple, natural feeling, allowing them to reconnect with nature. Finally, it is important to note that natural materials have become increasingly popular in recent years, as people are increasingly conscious of the environment and seek to live in harmony with nature. The use of natural materials not only benefits the environment but also provides a sense of well-being and comfort to individuals within the space. Therefore, it is essential to consider the use of natural materials when selecting decorative materials to enhance the indoor environment.

3. Methodology

3.1. The coexistence of inheritance and the times reveals the connotation of regional culture

Regional culture is an important aspect of our identity and it can reveal a lot about the history and traditions of a particular region. In many cases, regional culture is passed down from generation to generation, allowing us to preserve our unique traditions and customs. However, as times change, so do our cultural practices, and it is important to strike a balance between preserving our cultural heritage and adapting to the changing world around us [17].

One of the main challenges in preserving regional culture is the need to adapt to modern times. As society changes and technology advances, the traditional practices and customs of a region may no longer be relevant or practical [18]. This can lead to a clash between tradition and modernity, making it difficult to find a balance between the two. However, by embracing new technologies and modern practices while still preserving the essence of regional culture, we can create a more vibrant and dynamic cultural landscape.

Another important aspect of regional culture is the way it reflects the unique history and traditions of a particular region. From language and cuisine to architecture and music, regional culture is shaped by a variety of factors, including geography, climate, and historical events. By understanding the connotations of regional culture, we can gain a deeper appreciation for the customs and practices of a particular region and better understand the people who call it home [21].

The coexistence of inheritance and the times is a delicate balance that requires us to be open-minded and willing to embrace change while still honoring our traditions. By doing so, we can create a cultural landscape that is both diverse and dynamic, allowing us to preserve our unique heritage while adapting to the changing world around us [22].

Regional culture is an important part of our identity that reflects our unique history, traditions, and customs. By balancing the need to preserve our cultural heritage with the need to adapt to modern times, we can create a more vibrant and dynamic cultural landscape that reflects the diversity and richness of our world. Whether through the preservation of traditional practices or the adoption of new technologies and practices, it is important to continue exploring the connotations of regional culture and to embrace the coexistence of inheritance and the times.

3.2. Pass on the historical context and promote furniture brand culture

The furniture industry is not just about producing functional products; it is also about creating a brand culture. The historical context of furniture brands is essential in promoting their identity and creating a unique brand culture. Passing on the historical context and promoting furniture brand culture is an important aspect of marketing and building brand loyalty. In this discussion, we will explore the significance of historical context in promoting furniture brand culture [23].

Firstly, historical context helps to create a unique identity for the furniture brand. By highlighting the history of the brand, its origin, and its evolution, a brand can differentiate itself from its competitors. The historical context can be used to create a compelling narrative, which helps customers connect with the brand emotionally. For example, the use of traditional craftsmanship in furniture production can evoke a sense of heritage and authenticity, making customers feel like they are buying a piece of history [18].

Secondly, historical context can help to establish trust with customers. A brand with a rich history is more likely to be perceived as reliable and trustworthy. Customers are more likely to invest in a brand that has been around for generations and has a proven track record of producing quality products. Therefore, by sharing its history, a furniture brand can build trust with its customers and foster brand loyalty [16].

Thirdly, historical context can serve as a source of inspiration for designers. Designers can draw inspiration from the brand's history and use it to create new and innovative products that reflect the brand's identity. For example, a furniture brand that has a history of producing mid-century modern furniture can use its past designs as inspiration for new products, giving the brand a cohesive and recognizable identity.

Fourthly, historical context can also be used as a tool for educating customers. By sharing the brand's history, customers can gain a deeper understanding of the brand's values and design philosophy. This, in turn, can help customers make more informed purchasing decisions and develop a deeper appreciation for the brand.

Finally, passing on the historical context and promote furniture brand culture is an essential aspect of marketing in the furniture industry. Historical context helps to create a unique identity, establish trust, inspire designers, and educate customers. By using historical context to promote their brand culture, furniture brands can differentiate themselves from their competitors, build brand loyalty, and foster a deeper connection with their customers.

3.2. Excavate social attribute and natural attribute, promote resource value

The concept of excavating social attribute and natural attribute and promoting resource value is a key strategy in sustainable development. It involves identifying and utilizing the social and natural attributes of resources to maximize their value and minimize waste. By understanding the social and natural characteristics of resources, we can create more sustainable and efficient systems that benefit both the environment and society [14].

In terms of natural attributes, it is important to understand the ecological impact of our resource use. This means assessing the impact of extraction, processing, and disposal of resources on ecosystems and working towards minimizing negative impacts. Additionally, we can seek out renewable and sustainable sources of resources to reduce our reliance on non-renewable resources. By doing so, we can promote the long-term health and resilience of natural ecosystems while also ensuring that we can continue to meet our resource needs [21].

Excavating social attributes involves understanding the social value and impact of resources. For example, certain resources may have cultural or historical significance, and their use or preservation can help to maintain important cultural traditions and values. Additionally, understanding the social impact of resource extraction and use can help us to create more equitable and just systems. This means considering the social impact on local communities and workers, and working to ensure that resource extraction and use does not perpetuate social inequality.

Overall, promoting resource value through excavating social and natural attributes requires a comprehensive and holistic approach. This includes a shift towards renewable and sustainable sources of resources, as well as considering the social impact of resource use. By doing so, we can create more equitable, efficient, and sustainable systems that benefit both society and the environment. Ultimately, this approach is essential for achieving long-term sustainability and resilience in our resource use.

However, there are also challenges associated with excavating social and natural attributes and promoting resource value. These include the need for regulatory frameworks and policies that promote sustainable resource management, as well as the need for increased public awareness and education on the importance of sustainability. Additionally, there may be resistance from industries and individuals who are invested in the status quo and may be resistant to change. Overcoming these challenges will require collaboration and cooperation between different stakeholders, as well as a willingness to embrace new approaches and technologies.

In conclusion, excavating social and natural attributes and promoting resource value is a crucial strategy for achieving sustainable and equitable resource management. By considering the ecological and social impact of resource use, we can create more efficient and resilient systems that benefit both society and the environment. While there are challenges to be addressed, the economic and environmental benefits of this approach make it a necessary step towards a more sustainable future.

4. Discussion

The study highlights the significant impact of cultural differences on people's preferences and personalities, leading to distinct room styles and functional requirements. This finding emphasizes the importance of incorporating cultural

elements in bedroom design. By incorporating cultural strengths in the design process, designers can create a more authentic and personalized space that reflects the host's cultural level and aesthetic taste.

The study further emphasizes that bedroom design must conform to contemporary trends and reflect unique personality traits. By establishing leading consciousness and handling the form and space with a unique artistic conception, designers can create a pleasant and comfortable living space that satisfies people's psychological and physiological needs. This finding is essential, as people increasingly pay more attention to the quality of life and self-space requirements, leading to a greater pursuit of change in furniture and decoration.

The study highlights that designers must consider various cultural elements and characteristics, leading to personalized design styles. The incorporation of traditional furniture, Hongru's poetry and calligraphy, antique decorative prints, implicit and meaningful bamboo curtains, and other furniture furnishings can serve as personalized ornaments that embody the heritage of culture and become the immortal carrier of Chinese culture. By leveraging these traditional elements, designers can create a more personalized and authentic space.

In conclusion, this study highlights the importance of incorporating cultural elements in bedroom design. Designers must consider various cultural elements and characteristics to create personalized and authentic spaces that reflect the host's cultural level and aesthetic taste. By establishing leading consciousness and handling the form and space with a unique artistic conception, designers can create a pleasant and comfortable living space that satisfies people's psychological and physiological needs. These findings are crucial, especially as people increasingly pay more attention to the quality of life and self-space requirements.

The differences in aesthetic standards between East and West and among different nationalities, regions, and countries have resulted in various characteristics due to diverse religious beliefs and cultural traditions. These cultural differences influence people's personalities and preferences, leading to distinct room styles and functional requirements. Therefore, bedroom design should conform to contemporary trends and reflect the unique personality traits, exhibiting a distinctive artistic style and charm. The design must establish leading consciousness, handle the form and space with a unique artistic conception, grasp the characteristics, and correctly execute each link. It must create a pleasant and comfortable living space that satisfies people's psychological and physiological needs while displaying the host's thoughts and feelings, cultural level, and aesthetic taste. Traditional elements must be incorporated by leveraging regional culture's strengths to make designs more authentic.

Personalization is not just a requirement of living spaces, but it is also a new concept for designers. People today are more conscious of the quality of life, and they require more self-space, emphasizing change. Heavy, immobile furniture will be replaced by simple, smooth, and detachable furniture, becoming the mainstream. Simple and traditional furniture, calligraphy, poetry, antique prints, and meaningful bamboo curtains are part of people's pursuit of personalized ornaments and personalized design. These also embody the legacy of culture and become the immortal carrier of Chinese culture.

Furthermore, designers can use symbols from regional culture to carry out personalized bedroom design. These symbols are relatively stable cultural accumulations that have aesthetic significance after historical precipitation, reflecting different regional cultures' style characteristics and providing rich and diverse design elements. The application of these elements in bedroom design creates a personalized design style. In the coming years, personalization will be a central focus of designers.

5. Conclusion

In conclusion, the importance of cultural heritage and regional characteristics in designing a comfortable living environment cannot be overstated. The cultural differences and personality of people residing in different regions have a significant influence on their room style and functional requirements. Hence, it is essential to incorporate traditional and cultural elements while designing bedrooms that are in sync with the times, reflect unique personality traits, and display a unique artistic style and charm. Personalization is a new concept in designing that has gained importance in recent years. With people increasingly seeking self-space and more emphasis on quality of life, the use of heavy and immovable furniture has been reduced. Instead, simple and detachable furniture is becoming the mainstream. Furniture and decorative elements that embody the heritage of culture have become the immortal carrier of Chinese culture. Designers can apply regional cultural symbols to create personalized bedroom designs that reflect the style characteristics of different regional cultures. The use of such symbols has a rich aesthetic significance and cultural accumulation, providing designers with an array of design elements to create personalized and unique designs that cater to people's physiological and psychological needs. Looking ahead, designers must continue to draw inspiration from cultural backgrounds and regional styles to create comfortable living spaces that reflect the unique personality traits of people residing in different regions. There is a need to promote research in this area to help designers stay abreast of the latest trends and evolving needs of people. As the concept of personalization gains more importance, designers must continue to explore new ideas, concepts, and styles to create personalized designs that reflect the individuality and unique cultural heritage of their clients.

In summary, creating personalized and unique designs that reflect regional and cultural characteristics is essential to designing comfortable living spaces that meet the needs of the times. The future works must focus on research and development in this area to help designers create innovative designs that reflect the evolving needs of people. Designers must continue to explore new ideas, concepts, and styles to create personalized designs that are both aesthetically pleasing and functionally efficient. The future of bedroom design lies in creating an environment that is not just comfortable but also reflective of people's unique cultural and personal backgrounds.

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