



# Global Journal of Emerging Science, Engineering & Technology



Original Article

## The Integration of Traditional Symbols and Modern Product Design: Cultural Inheritance and Innovation

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Citations: Yijing, C., & Sharudin, S.A., (2023). The Integration of Traditional Symbols and Modern Product Design: Cultural Inheritance and Innovation. *Global Journal of Emerging Science, Engineering & Technology*, 1(1), 19-25.

Received: 18 February 2023

Accepted: 3 May 2023

Published: 31 May 2023

**Abstract:** This study focuses on integrating traditional symbols and modern product design, exploring how to achieve innovative design while maintaining cultural heritage. The article first analyzes the significance and value of traditional symbols as well as the characteristics and requirements of modern product design. Subsequently, the integration of traditional symbols and modern product design was explored, including the introduction and integration of traditional symbol elements, the reinterpretation and innovative design of traditional symbols, and the combination of traditional symbols and modern technology. Finally, from the perspective of cultural inheritance and innovation, strategies for the integration of traditional symbols and modern product design were proposed, including strengthening the mutual integration of traditional symbols and modern product design, enhancing the innovative ability of traditional symbols, expanding the application fields of traditional symbols, and strengthening the cultivation of talents for traditional symbols and modern product design.

**Keywords:** Traditional symbols; Cultural inheritance and innovation; Modern product design; Fusion methods.



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### 1. Introduction

With the acceleration of globalization, cultural exchanges between countries are becoming increasingly frequent, and the collision and integration between traditional culture and modern civilization has become a hot topic. In China, traditional symbols, as an important carrier of national culture, have rich cultural connotations and unique artistic value. Combining traditional symbols with modern product design not only helps to inherit and promote national culture but also injects new creativity and vitality into modern product design (Zhou et al., 2020). As an important carrier of national culture, traditional symbols have rich cultural connotations and unique artistic value. In the long history of our country, traditional symbols carry the cultural characteristics of various periods and witness the inheritance and development of national culture. Traditional symbols include but are not limited to patterns, colors, shapes, techniques, and other aspects. They reflect the spiritual style, regional characteristics, and aesthetic taste of our nation in various

forms of expression. Traditional symbols have high research value in various fields such as history, culture, and art, and are an indispensable and important component of national culture.

## 2. Cultural Value of Traditional Symbols

The cultural value of traditional symbols is reflected in the following aspects: firstly, traditional symbols are an important carrier for the inheritance of national culture, representing the historical memory and cultural heritage of the nation. Secondly, traditional symbols have unique artistic value, showcasing the artistic talent of a nation with their profound meaning, beautiful form, and exquisite craftsmanship. Once again, traditional symbols are rich in philosophical ideas such as "unity of heaven and man" and "harmonious coexistence", which still have positive guiding significance for the development of modern society. Finally, traditional symbols have a strong social cohesion, which can strengthen national identity and pride, and promote social harmony and stability (Jin, 2022).

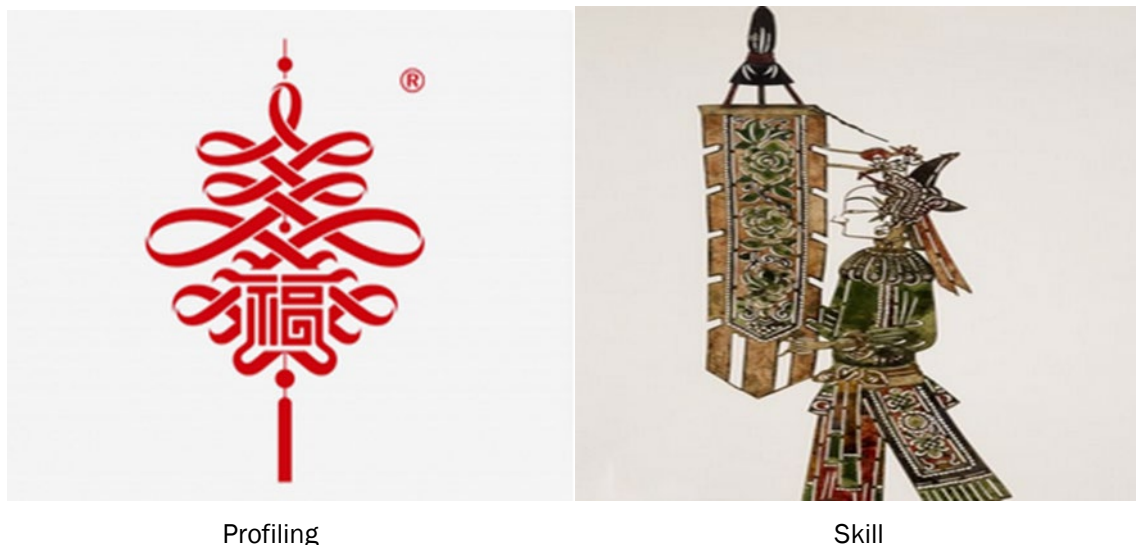
### 2.1. Design Elements and Forms of Traditional Symbols

The design elements and forms of traditional symbols are rich and diverse, covering aspects such as patterns, colors, shapes, and techniques. These elements and forms are intertwined and together form the unique charm of traditional symbols. Firstly, patterns are an important form of expression for traditional symbols, showcasing the artistic talent of a nation with profound meanings, beautiful forms, and exquisite craftsmanship. Secondly, color also holds a crucial position in traditional symbols, and different color combinations can convey different emotions and meanings, such as red symbolizing joy and auspiciousness, and blue symbolizing tranquility and depth. Once again, in terms of styling, traditional symbols emphasize the use of lines, emphasizing the combination of form and spirit, and presenting rich connotations in a minimalist manner. Finally, in terms of craftsmanship, traditional symbols have inherited the characteristics of craftsmanship in various periods, such as Paper Cuttings, embroidery, ceramics, etc. They demonstrate the breadth and depth of national culture with exquisite skills and unique artistic styles.

### 2.2. Modern Application of Traditional Symbols

As an important carrier of national culture, traditional symbols still have extensive application value in modern society. With the advancement of globalization, traditional symbols have become an important element for various countries and regions to showcase their unique cultural charm. In China, traditional symbols are widely used in various fields, such as architecture, home furnishings, clothing, handicrafts, advertising, etc. (Rashdan & Mhatre, 2022). In the field of architecture, traditional symbols are used for decoration and design, giving architecture a strong ethnic and cultural connotation. In traditional architecture, such as wood carving, brick carving, stone carving, etc., they showcase the artistic talent of the nation with their profound meaning, beautiful form, and exquisite craftsmanship. In the field of home furnishings, traditional symbols are used in the design of furniture, home textiles, accessories, etc., adding a warm and harmonious atmosphere to the home space. In the field of clothing, traditional symbols are used to design elements, giving clothing a unique ethnic style and cultural connotation. In addition, traditional symbols are widely used in fields such as advertising, packaging, and product design to showcase the regional characteristics and cultural connotations of products.





**Figure 1.** Traditional Symbol Element Form

### 3. Characteristics and Requirements of Modern Product Design

#### 3.1. Trends in Modern Product Design

Modern product design, as a comprehensive discipline, its development trend is closely related to various factors such as market demand, technological development, and consumer demand. With the rapid development of technology and the continuous progress of society, modern product design presents the following main trends: Personalization and customization. Modern consumers are increasingly focusing on personalized consumer experiences, and product design needs to meet the personalized needs of different consumers, providing richer and more diverse choices. Humanization and user experience. Product design is increasingly focusing on user experience, starting from user needs, with the goal of meeting user needs, and achieving a perfect combination of product functionality and aesthetics. Green environmental protection and sustainable development. With the increasing awareness of environmental protection among people, green, low-carbon, and sustainable product design has become an important trend. In addition, intelligence and digitization are also an important trend in modern product design. By introducing advanced technological means, the intelligence and digitization of products can be achieved, improving their added value and competitiveness (Mamedova & Gasumova, 2020).

#### 3.2. Functional and aesthetic requirements for modern product design

Modern product design, as a comprehensive discipline, aims to meet the functional requirements of products and achieve various requirements such as aesthetics, practicality, and environmental protection. Therefore, functionality and aesthetics are two essential aspects in modern product design. Functional requirements refer to the product design that needs to meet the actual needs of users during use, including the product's usage functions, operating methods, safety performance, etc. Product design needs to start from user needs, fully consider the practicality, convenience, and safety of the product, so that the product can better meet the user's usage needs. Aesthetic requirements refer to the need for product design to have high aesthetic value, including the shape, color, material, and other aspects of the product. Product design requires the use of aesthetic principles and design techniques to endow products with unique artistic charm and aesthetic value, thereby enhancing their added value and market competitiveness (Yang, 2018). In modern product design, functionality and aesthetics are two complementary aspects that together constitute the overall quality of the product. Designers need to fully consider the functionality and aesthetics of the product, optimize and upgrade the product through innovative design techniques and concepts, and improve its market competitiveness.

#### 3.3. User Experience and Emotional Needs in Modern Product Design

Modern product design is increasingly focusing on user experience and emotional needs, as they are key factors that affect the success of a product. User experience refers to a comprehensive evaluation of the comfort, ease of use, practicality, and other aspects experienced by users during the use of a product, while emotional needs refer to users' psychological and emotional preferences, identification, and sense of belonging towards the product. Modern product design needs to fully consider user experience and



emotional needs and meet these needs of users through design techniques and concepts. Firstly, designers need to pay attention to the ease of use, comfort, and practicality of the product, so that it can provide users with a pleasant experience during use. Secondly, designers need to pay attention to the emotional needs of the product and meet the aesthetic and psychological needs of users through its shape, color, material, and other aspects, making the product an indispensable part of users' lives (Yu & Ghani, 2023). In order to meet user experience and emotional needs, designers need to have a deep understanding of user needs and psychological characteristics, use innovative design techniques and concepts, achieve product optimization and upgrading, and improve product market competitiveness. In addition, designers also need to pay attention to market dynamics and industry trends, constantly update design concepts and skills to meet the increasing demand level of users.

#### 4. Integration of Traditional Symbols and Modern Product Design

##### 4.1. Introduction and Fusion of Traditional Symbolic Elements



**Figure 2.** Introduction of Traditional Symbols in Modern Product Design

In the design process, designers need to fully understand and master the cultural connotations, formal characteristics, and expressive techniques of traditional symbols in order to better integrate them into modern product design. Secondly, designers need to select and apply traditional symbolic elements in a targeted manner based on the functionality, form, and aesthetic needs of the product. For example, when designing clothing with traditional cultural characteristics, symbolic traditional patterns and colors can be introduced to highlight the cultural connotations and regional characteristics of the product (Yueming, 2021). In addition, designers also need to pay attention to the integration of traditional symbol elements and modern design elements, achieving a perfect combination of tradition and modernity. This can be achieved through innovative interpretations of traditional symbols, or by restructuring and transforming them with modern design elements. For example, when designing a phone case with traditional cultural characteristics, traditional colors and patterns can be used, combined with modern design elements such as materials and craftsmanship, to create a unique product style. In the process of integrating traditional symbols with modern product design, designers need to pay attention to maintaining the cultural connotation and unique charm of traditional symbols, while also considering the functional and aesthetic needs of modern products, to achieve a perfect combination of tradition and modernity. By introducing traditional symbolic elements and integrating them into modern product design, a unique cultural heritage can be added to the product, enhancing its added value and market competitiveness (Fengfan, 2017).

##### 4.2. Cultural inheritance theory in Hakka historical architecture

The reinterpretation and innovative design of traditional symbols is another way of integrating traditional symbols with modern product design. In this process, designers need to conduct in-depth research on traditional symbols, explore their cultural connotations, formal characteristics, and expressive techniques, and combine them with the needs of modern product design to creatively interpret and recreate them. Firstly, designers need to conduct in-depth research on traditional symbols to understand their cultural background, historical evolution, and symbolic significance. This helps designers better

understand the connotation and value of traditional symbols and provides inspiration for the reinterpretation and innovative design of traditional symbols.



**Figure 3.** Innovative Application of Traditional Symbols and Modern Design

Secondly, designers need to creatively interpret traditional symbols and combine them with the needs of modern product design. This can be achieved through deformation, recombination, abstraction, and other methods of traditional symbols. For example, when designing furniture with traditional cultural characteristics, traditional patterns can be transformed to better meet modern aesthetic and functional needs. Finally, designers need to focus on the implementation of innovative design, combining traditional symbols with modern design elements to create products with unique styles. This can be achieved using modern design techniques, materials, and craftsmanship. For example, when designing a garment with traditional cultural characteristics, modern design techniques such as three-dimensional cutting and splicing can be used to create a unique product style (Lu, 2022).

#### **4.3. Combination of Traditional Symbols and Modern Technology**

The combination of traditional symbols and modern technology can be achieved through digital technology. Digital technology can transform traditional symbols into digital forms, making them easier to propagate, modify, and apply. For example, when designing an animation with traditional cultural characteristics, digital technology can be used to digitize traditional patterns, colors, and shapes to create a modern animation effect. The combination of traditional symbols and modern technology can be achieved through intelligent technology. Intelligent technology can combine traditional symbols with technologies such as artificial intelligence and big data to create products with intelligent characteristics. For example, when designing a smart home product with traditional cultural characteristics, traditional symbols can be combined with the smart home system to create a smart home product with intelligent characteristics.

### **5. The Integration Strategy of Traditional Symbols and Modern Product Design: Perspective of Cultural Heritage and Innovation**

#### **5.1. Strengthen the integration of traditional symbols and modern product design**

Emphasize the integration of traditional symbols and modern product design concepts. Designers need to deeply explore the cultural connotations, formal characteristics, and expressive techniques of traditional symbols, and combine them with the needs of modern product design to achieve a perfect integration of tradition and modernity. This can be achieved through innovative interpretations of traditional symbols, restructuring and transforming them with modern design elements. Strengthen the integration of traditional symbols and modern product design techniques. Designers need to fully understand and master the technical characteristics of traditional symbols, such as Paper Cuttings, embroidery, ceramics, etc., and combine modern design techniques and processes to achieve the integration of traditional and modern

techniques. This helps to enhance the added value and market competitiveness of products, injecting new vitality into the inheritance and development of traditional symbols. Emphasize the emotional integration of traditional symbols and modern product design. Designers need to pay attention to user experience and emotional needs and create products with unique cultural heritage and emotional value by integrating traditional symbols with modern design elements. This helps to meet the psychological and emotional needs of users and improve the market competitiveness of the product.

## 5.2. Enhancing the Innovation Ability of Traditional Symbols

Strengthen the research and mining of traditional symbols. Designers need to delve into the cultural connotations, formal characteristics, and expressive techniques of traditional symbols, and explore their potential innovative elements and values. This helps to provide rich materials and sources of inspiration for the inheritance and innovation of traditional symbols. Promote the integration of traditional symbols with modern technology. Designers need to fully utilize modern technological means, such as digital technology and intelligent technology, to creatively interpret and recreate traditional symbols. This helps to enhance the innovative ability of traditional symbols, making them more in line with modern aesthetics and market demands (Qin, 2022). Emphasize the cross-border integration of traditional symbols. Designers need to pay attention to the intersection and integration between different fields, combining traditional symbols with other art forms, design elements, etc., to create works with innovative characteristics. This helps to enhance the innovation ability of traditional symbols and expand their application fields.

## 5.3. Expanding the Application Fields of Traditional Symbols

Pay attention to the development needs of different industries and fields. Designers need to understand the characteristics and needs of various industries and fields, cleverly integrate traditional symbols into relevant product designs, and provide users with unique and valuable product experiences. Emphasize the combination of traditional symbols with other artistic forms. Designers can try to combine traditional symbols with art forms such as painting, sculpture, and music to create works with cross-border characteristics, expanding new possibilities for the application of traditional symbols. Explore the application value of traditional symbols in modern life. Designers need to pay attention to the application scenarios of traditional symbols in modern life, such as home furnishings, clothing, advertising, architecture, etc., in order to meet the needs of modern consumers.

## 5.4. Strengthening the Training of Traditional Symbols and Modern Product Design Talents

Improve the curriculum system related to traditional symbols and modern product design. Educational institutions need to combine the characteristics of traditional symbols and modern product design, develop targeted curriculum systems, and cultivate talents with innovative awareness and practical abilities. Strengthen the construction of teaching staff. Educational institutions need to attach importance to the construction of teaching staff, introduce teachers with rich experience and practical abilities, improve teaching quality, and cultivate traditional symbol and modern product design talents that meet market demand.

## 6. Conclusions

The integration of traditional symbols and modern product design is a process full of challenges and opportunities. Through the exploration, innovation, cross-border integration, and talent cultivation of traditional symbols, we can achieve the perfect combination of tradition and modernity while inheriting and promoting China's rich cultural heritage. In the future, the integration of traditional symbols and modern product design will demonstrate unique charm on the international stage, injecting a continuous stream of vitality into the development of China's cultural industry.

**Author Contributions:** Conceptualization, C.Y. and S.A.S.; methodology, C.Y.; software, C.Y.; validation, S.A.S.; formal analysis, C.Y. and S.A.S.; investigation, C.Y. and S.A.S.; resources, C.Y.; data curation, S.A.S.; writing—original draft preparation, C.Y. and S.A.S.; writing—review and editing, C.Y. and S.A.S.; visualization, C.Y.; supervision, S.A.S.; project administration, S.A.S.; funding acquisition, S.A.S. All authors have read and agreed to the published version of the manuscript.

**Funding:** This research received no external funding.

**Institutional Review Board Statement:** Not applicable.

**Informed Consent Statement:** Not applicable.

**Data Availability Statement:** Not applicable.

**Acknowledgments:** The authors would like to thank City University Malaysia, for supporting this research and publication. We would also like to thank the reviewers for their constructive comments and suggestions.

**Conflicts of Interest:** The authors declare no conflict of interest.

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