Application of Digital Technology in the Design of Textile Products

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Abstract. For the research of this topic, the key point is how to apply digital technology in the design of domestic textile matching, how to upgrade the traditional industry and its products, and to strengthen the market competitiveness of its industry and products. Through the analysis of the superiority and advanced digital technology, digital technology has made in other related areas of achievements, demonstrated the great influence of digital technology on modern industrial production and people's life; we pay more attention to the combination of art and design at the same time, the characteristics of using digital technology, the art form and function promotion, focusing on supporting space the artistic effect.

Keywords: digital technology; textile design; matching design; design concept.

Introduction

The digital sublimation technology skills in home textile design, can achieve the perfect combination of household textile design and digital technology, but also promote the scientific beauty and artistic beauty, and can save resources, realize low carbon production process. This paper demonstrates the successful and effective artistic expression of digital technology in the design of household textiles. Needless to say, digital technology will play an important role in home textile industry and design, and create enormous economic and social benefits.

In today's society, human civilization, whether in terms of spiritual

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civilization or material civilization, its social development laws are accompanied by the development of science and technology and progress. Especially industrial mechanization, information automation, more sublimation of human desire, that is, human quality of life requirements. In all aspects related to human existence, life can not be separated from digital technology. Digital technology and design make people's happiness level in work and life rise to a higher level. In the traditional textile industry, digital technology, with its unique charm, on the development of traditional textile industry to modern industry, it not only realizes the combination of science and technology and art design, but also improve the competitiveness of the industry and labor productivity.

As a matching design of home textiles, it is a wide and systematic project, including technology, materials, industry and design. If from the art, design and aesthetic aspects, its unique design point of view occupies an important position in people's lives. Overall, it is dependent on the particular interior environment of the textile appearance, shape design, the existence of this design form, fully reflects the different textures, rich patterns, and varied colors. Performance of various shapes, shape style, is the remarkable sign.

With the rapid development of modern society, the rapid development of science and technology, people's way of life has been unprecedented changes. Especially since the beginning of twenty-first century a new era, cultural quality and aesthetic consciousness constantly improve, people in the use of home textiles is no longer just a single to meet their basic living functions, but as one of the important ways to create atmosphere, edify sentiment, the pursuit of individuality. Thus it can reflect the realm of consumers' ideas and aesthetic ideas.

**Characteristics of home textiles and their matching design in digital technology.**

Throughout the twentieth Century, one of the greatest inventions in the field of science and technology has been the invention and spread of computer technology. Because computers are based on numbers, there is the term "digital technology". Today, people have entered a "digital" way of life. Digital technology for the traditional textile industry also had a profound impact, the emergence of many new digital technology related terminology, production process, design methods and business philosophy, has opened up a new way for the development of the textile industry in twenty-first Century. The use of digital technology to upgrade traditional industries, the textile industry will make China change from labor-intensive to technology, capital intensive, realize the transition from the textile industry country to production power, but also to achieve the design innovation, the creative design of a world-class goal.
**Combination of design and technology.** The design of digital technology is a kind of art of modern advanced science and technology, it has changed the traditional design mode, provides the design means and method of fast, accurate, new, and the thought of design and analysis methods have profound influence. As with other design technology, digital technology has become the basic means, tools and methods of modern design industry, it makes the appearance design of all aspects of the situation, a comprehensive change, too, and for supporting the art design of home textiles therefore, digital technology has become one of the design techniques of home textile products designers must grasp the. China joined WTO, truly integrated into the international market, to Chinese household textile industry into the international market, expand the share of the international market and international market share has brought development opportunities, but also brings the challenge and competition of international product. Today, textiles can be divided into three categories: clothing, textiles, decorative textiles and industrial textiles. They are used as decorative textiles, both in China and abroad, and they have a long history.

In twenty-first century, the biggest development between art and science was undoubtedly the influence of digital image technology on graphic art and style design language. The research and application of digital science and technology, has become a must face serious problems and test of home textiles and supporting design. Before the advent of hardware and software of digital technology, designers have been using traditional process methods and design tools to carry out all design activities. The art of textiles designed by traditional techniques have various benefits, but in the rapid development of digital science and technology, its deficiencies are gradually revealed.

The use of digital technology and art design of home textiles, designers can achieve manual which can reach the effect of creativity and design efficiency, and easy to modify, easy to update any designer in the design, rapid, accurate and can be especially suitable for small batch production, now consumers seeking personalized, fashion era.

Design of household textile pattern in digital technology is provided by design of software in computer drawing directly or using hand-painted patterns, by scanning into the computer and software combination to complete the design. Because of the application of digital technology in the design of modern home textiles, a new design style which is different from the traditional style is opened.

As everyone knows, home textiles and supporting the design process can be divided into: Design proposition establishment, product market investigation, data collecting and finishing, drawing sketches, targeted modifications, decorative design renderings, feedback, final. In the traditional design process of home textiles, it is only relying on hand to do so many procedures, basically impossible.
After the advent of the digital technology, designers only need to have a set of basic design tools such as computer, mouse, hand-painted plate and digital technology to have enough understanding in addition to the design software skilled operation ability can easily design creation, the design division of the work becomes relatively simple, not in buy the traditional design tool in the design of spending too much time and more conducive to the designer into the heart of the design to creation.

In the past the traditional means of design form, in the design of data accumulation on the full designers need to spend a lot of time, if you want to be a designer of the material, you need to buy the related books to the bookstore, or go to the library and reference rooms and other places read a lot of information, and through out painting etc., and by this way to the accumulated data is quite limited, designers often can not find their satisfaction with the data. The traditional process means designers in the accumulated data is completely rely on books or pictures, is your hand drawn, so that not only the query design data to waste a lot of valuable time, but also can take up unnecessary space, adds great difficulty for designers.

The change of digital technology to home textiles and its matching design. The application of digital technology, not only can bring creative new ideas for designers, can also provide massive data material for the designers in the process of using, the designer will have the value of the material stored in a computer, some time need to use these materials, in the computer to find them very convenient, ready to use at any time. In the acquisition of material information, the use of digital technology for material acquisition, than the previous traditional design simple, fast and more, this is the past traditional design can not go beyond the.

Reasonable application of digital technology not only in the design, but also can be shown in the aspect of network communication, due to the current domestic textile design domestic and international standards, trends and more information, the domestic use of network communication can quickly contact with foreign design, dynamic can understand and grasp the international home textiles in the first time. It can be better applied in the design, but in the traditional process design before, designers only through some paper to understand the international dynamics, lead designers can not timely design conforms to the trend of the times of home textiles, the impact of the use of consumer, until the digital technology network, domestic designers can whenever and wherever possible direct contact with the international fashion trend at the present stage, the trend with their own design after processing show in front of consumers, designers can use the network to understand the international advanced technology household textile design, involving technology, technology, production, marketing and other aspects of the content,
the emergence of the network can truly Chinese household textile design and international standards, international information communication, Sharing resources with each other to better serve the global consumer and enhance the material enjoyment of consumers.

Summary

In the future, in the support of digital technology, and under the guidance of household textile design will show a more diversified, personalized artistic style, its aesthetic focus more on fashion, popular, and in the cultural connotation, aesthetic form, jump on a higher level. At the same time, the material on the pursuit of more visual and tactile texture, and digital technology to its superior performance, designers with its wisdom, innovation to obtain novel texture and texture of materials in the world to attract consumers, to conquer the consumer's mind, to guide the market and consumers. There is no doubt that digital technology will bring a blooming spring to Chinese household textile design, full of vigor and vitality.

References