

Analysis of the Function of Classical Garden Architectural Design Techniques on Modern Architectural Design

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Abstract: With the development of society, people begin to pursue more harmonious living environment between human and nature, and the cultural artistic conception contained in traditional Chinese classical gardens coincides with people's requirements for living environment at present. One of the main characteristics of Chinese classical gardens is to fully combine the use function with the appreciation function. The garden landscape should not only meet the actual use, but also have the appreciation, and integrate artistic design into every detail of life. With the continuous development of the construction industry, the style of modern architectural design also needs continuous innovation. It is entirely possible to learn from the architectural design methods of classical gardens, innovate architectural styles according to local conditions, and at the same time carry forward the essence of classical garden architectural design.

1. Introduction

In recent years, with the continuous development of China's market economy and the continuous progress of urban construction, the development momentum of China's construction industry is very rapid. However, with the development of the times, China's population is increasing year by year, and China's high-rise buildings are increasing. A detailed study of the history and culture of Chinese traditional gardens is a necessary condition for architectural designers to create a building space that merges comfort and beauty and inherits traditional architectural culture and integration [1]. Although many classical garden buildings have not been effectively protected, leading to the gradual loss of their original appearance, modern people can still perceive the charm of their design among the preserved classical buildings [2]. Especially through the special combination of garden building space and the treatment skills of garden external environment, we can understand the architectural concept of harmony between man and nature in classical garden buildings. In today's era of advanced architectural technology, to fully understand the design methods of gardens and apply them to modern architectural design is undoubtedly a re-excavation of China's historical treasure house and the promotion of Chinese architectural culture.

2. Characteristics of Classical Garden Architecture

As one of the treasures of our country, the Jiangnan private garden in the traditional Chinese garden, even though its scale is different, shows its unique and beautiful scenery through the ingenious gardening technique of the craftsman. Landscape architecture and landscape elements, animal and plant elements have achieved a perfect integration. According to the practical requirements and artistic requirements of literati and scholars, a unique Oriental garden art has been constructed. In the aspect of landscape selection, the classical architectural landscape design pays more attention to double interaction, that is, viewing and being viewed. In the specific design, the designer should not only consider people's living needs comprehensively, so that the function of landscape architecture in use can be brought into full play. Because the building forms the whole garden, while other elements are the subsidiary parts of the building, the garden building strives to be lively and full of changes in the plane layout and space treatment. Combining the structure and some factors of western modern architecture with some factors of Chinese traditional architecture, especially the factors of Chinese classical gardens and spatial layout, it forms a form with its own

characteristics

2.1 Use and Landscaping

The design concept of Chinese classical garden architecture is rich in connotation, which not only embodies the philosophy of harmony between man and nature, but also embodies profound cultural implication. Therefore, classical garden architecture is not only a precious material and cultural heritage, but also an extension of national spirit. Classical garden architecture can not only meet the needs of people's daily activities, but also ensure the use of functions under the condition of conforming to the landscape layout [3]. Therefore, Chinese classical gardens have the characteristics of viewing and being viewed at the same time. Sensory pleasure and garden set rules are taken into consideration. Only in this way can the visual charm of garden architecture design be brought into full play. When people enter the garden, they will feel at ease physically and mentally. To some extent, garden architecture is a unique artwork [4]. The pursuit of classical garden design is to reflect the leisure of literati and officialdom. The overall garden looks amazing like a landscape painting. Therefore, garden architecture is not only a material product but also an artistic work, which requires that garden architecture should be suitable for visitors to view the scenery in motion or in silence, and should also make the scenery rich in changes, so as to achieve the effect of changing scenery in step by step.

2.2 Clever at Borrowing Scenery and Blending Scenes

In the aspect of landscape design, great importance is attached to the perfect combination with nature, usually with the help of artificial strength and wisdom, to create a landscape consistent with natural scenery. Architecture is like hiding in natural landscape. This kind of environment can relax people's spirit, as if they had returned to the pastoral era and established a mysterious connection with nature. It strives for the beauty of nature, and the coordination between architecture and the surrounding natural environment is the top priority. Even if the garden is located in a town, there will be no shortage of rocks, pools, flowers and trees in the garden [5]. In addition to a large number of buildings in the garden, there are also many picturesque scenes formed by chiseling ponds and cutting mountains, planting flowers and trees, imitating the natural landscape scenery manually, or using ancient landscape painting as a blueprint, and referring to the emotional appeal of poetry. In the classical gardens, the technique of borrowing scenery is very clever. In addition to using natural scenery, rockeries, artificial pools, gardens and so on will be built to skillfully combine natural scenery with artificial scenery. Both of them contain certain artistic tension, and pay attention to the combination of movement and stillness. Their artistic effects are harmonious and changeable. They are usually handled by means of moving steps and changing scenes [6].

2.3 Clever Spatial Handling Techniques

Scientific treatment and skillful application of garden space can not only make garden style more attractive, but also further strengthen the integration beauty between garden and nature. The corridor's function is not only to naturally integrate multiple single buildings in the garden, but also to naturally transition and connect the internal and external space of the garden and guide the browsing route in the garden. While improving people's life, it also increases people's psychological pressure to a certain extent. In the process of modern architectural design, more and more attention is paid to introducing nature into people's daily life. Chinese traditional garden space treatment methods are as follows: proportion coordination, scale adaptation, high and low changes, strewn at random have send; Designers of classical garden architecture usually refine and cut the landscape in nature in a characteristic way, especially re-integrate the mountainous ravines in nature and apply them to gardens, making use of small spaces to highlight the concentrated natural beauty [7]. Traditional gardens pay special attention to the creation of artistic conception. Modern garden art also believes that the overall atmosphere of living space and humanistic care are very important. Combining the artistic conception of classical gardens with the atmosphere of modern gardens can achieve unexpected results.

3. Ways of Applying Classical Garden Architectural Design Techniques in Modern Architectural Design

3.1 Application of Landscaping Techniques

In modern architectural design, a great deal of use is made of the method of borrowing scenery in the process of classical garden architecture. In the design of classical garden architecture, through the design of individual buildings, it provides a place for people to watch the landscape and can also exist independently as a landscape to be watched. The function of the corridor is the same as that of the classical garden, but its shape is different from that of the classical garden, which is located outside the building. The corridor in the modern building is usually located inside the building or close to the building, forming a semi-open space. This involves the generalization, variation, deconstruction and reconstruction of traditional forms to complete the transformation of differences in forms. Through a slightly simplified form, the harmony of nature represented by mountains, rivers and vegetation fully reflects the close relationship between man and nature rich in Chinese tradition [8]. Therefore, artificial force should be used to imitate the natural scenery in the garden. Besides the basic buildings, rockeries, rocks, bridges and running water should be molded in the garden. In modern architectural design, we can fully draw lessons from ancient garden architectural design techniques and construction concepts, and use modern materials and technology to create buildings that conform to modern aesthetic concepts and reflect classical charm.

3.2 Innovation of Spatial Processing

Classical gardens are used to the form of folding cloisters and so on, and modern residential areas often use this space treatment method. They also create space contrast through the arrangement of plants, buildings and small scenic spots to enrich space changes. In the process of interior space design, the interior space can become outdoor by using natural art in modeling, i.e. artistic modeling with vitality, such as bonsai or potted plants, etc. for interior design and furnishings. There are many types of structural forms in classical garden architecture, such as generalization, variation, deconstruction, reconstruction, etc. In modern architecture, these classical forms are completely conceptualized in form, taking the spirit instead of the form, and good design results have been achieved in reality. The more dynamic and lively the spatial layout, the more possible it is. Traditional Chinese gardens often use proportional coordination and random arrangement in space treatment. Therefore, designers are required to show art in a relatively small space, and they are required to refine the landscape in nature by using the characteristic clipping method, especially the integrated application of mountainous ravines in nature. Therefore, borrowing from modern architectural design is to create a certain artistic conception and reflect the verve of Chinese culture while paying attention to comfort, openness and ecology, so as to enhance the artistic feeling of living space and improve the cultural taste of the whole building.

3.3 Inheritance of Artistic Conception

In ancient China, various artistic forms were inextricably linked. Poetry can show the beautiful scenery in paintings, while garden works can fully express the meaning of poetry and landscape painting. The ancient garden architecture in our country emphasized the harmony of artistic conception and pursued the aesthetic realm that was interlinked with poetry and painting. Modern architecture was also deeply influenced by this artistic thinking. Many buildings also tried to create a vivid artistic atmosphere when they were designed, reflecting the inner verve of architecture at one time and making people realize the beauty of the soul of architecture when they lived in it. Chinese classical private gardens pay attention to the embodiment of artistic conception. Plants with strong symbolic meanings, such as pine, bamboo, plum, and three gentlemen of the year, are often used to embody the spiritual integrity of literati. Designers create a beautiful environment full of natural flavor through reasonable arrangement and organization of indoor environment and outdoor natural landscape, and promote the organic formation of an integrated indoor space and outdoor space, thus achieving the purpose of relieving people's living pressure and work fatigue. Only in this way can the influence of architectural design on the natural environment be reduced as much as

possible, so that people's aesthetic needs can be effectively met, thus achieving the goal of promoting the harmonious development of human and nature.

3.4 Application of Single Traditional Garden Building Elements

In classical private gardens, white walls and tiles are often used for decoration, and the colors are empty, ethereal and bland, reflecting a colorless beauty. The sunshine, mountains, plants, flowers and landscapes in the indoor space can not only introduce the effects of nature into the indoor space, but also greatly enhance the cultural atmosphere and artistic atmosphere of the indoor space. Integrating the landscape complex into the overall design style of the building, the abstraction of the concept also highlights the unique design thinking of modern people, and to a large extent goes beyond the general meaning of garden architecture, reflecting the green concept of returning modern architecture to its original nature. Reproduce the verve of landscape painting in garden art. With the foundation of landscape painting artistic style, garden design can better show nature and blend into nature. The beautiful scenery in the garden is framed into the window hole, and then matched with the landscape appreciation method of step by step and step by step, the beautiful scenery in the garden can be fully captured. The stone carvings, rockeries and bamboo groves in quadrangles can be used for reference in modern architectural design, which can not only provide comfortable visual viewing space for buildings, but also enable them to obtain infinite thinking and reverie. In some landscape treatments, we boldly borrow the visual impact, regardless of the form, order, proportion, scale, style, design and pattern, we have a way beyond classical methods. Moreover, on the level of space, it makes space develop towards multi-dimensionality.

4. Conclusion

To sum up, the design methods of classical garden architecture have important reference significance for modern architectural design. Many classical garden buildings also embody a lot of philosophical ideas. At the same time, the construction techniques and techniques of buildings are also very exquisite. Applying these advantages to modern architectural design can enhance the design charm of modern buildings and improve the degree of integration between buildings and the environment. The application of open space design techniques in ancient gardens in modern architectural design can not only promote modern architecture to obtain more colorful and rich open space, but also enhance the natural atmosphere and landscape of modern architecture. Chinese classical gardens have the characteristics of imitating nature and seeing the big from the small. They are unique in the unity of functionality and appreciation as well as in the spatial processing techniques. Modern garden architectural design is obviously influenced by classical garden art in terms of concept, artistic conception, techniques and creative thinking.

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