

Elements and Creative Ideas of Architectural Space Design Based on the Concept of Harmony Between Humanities and Ecology

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Abstract:

Construction engineering is a fundamental component of China's modern economic and social development. Under the background of urbanization, it has objectively promoted the development of cities in China, increased the number of urban personnel, and expanded the scale of urban construction. On this basis, higher requirements have also been put forward for construction projects. In practice, it is necessary to focus on the design and planning of architectural spaces, and grasp the various elements involved. At the same time, in order to balance various aspects such as quality, safety, comfort, and ecology in architectural space design, it is also necessary to integrate the concept of harmony between humanities and ecology. Based on the actual situation of architecture, strengthen creative ideas to improve the overall effect of architectural space design and achieve the healthy development of the construction industry.

Keywords:

Humanities and Ecology, Architectural Space Design, Creative Conception

1. Introduction

In modern construction projects, architectural space design is a very important content. Through high-quality architectural space design, it is more conducive to creating a good living environment for people and bringing them a more comfortable and high-quality living experience. Specifically, during the process of architectural space design, designers need to balance both humanistic and ecological aspects, fully integrate the harmonious concept of humanistic and ecological aspects, grasp various elements in architectural space design, and creatively conceive based on the actual situation of the building, in order to improve the overall level and effectiveness of architectural space design and better meet people's needs. [1]

2. The Concept of Harmony Between Humanities and Ecology

From the current development of the construction industry in China, the integration of humanistic and ecological harmony concepts has become the main trend. By integrating human ecological concepts into architectural space design, it is more conducive to improving the overall quality and effectiveness of architectural space design, making people's living more comfortable, and at the same time enhancing its aesthetic value. Specifically, the reasonable application of humanistic elements is more conducive to enhancing people's sense of identity and belonging towards architectural history, bringing spiritual and cultural enjoyment to people. Through the integration of ecological concepts, buildings can better coordinate with the surrounding environment, effectively reduce resource and energy waste, reduce ecological damage, and achieve the effect of harmonious coexistence between humans and nature. However, the design of architectural spaces based on the concept of harmony between humanities and ecology is also a very complex and systematic work. During the actual design process, multiple aspects and elements are often involved, which requires designers to conduct comprehensive analysis and consideration, focus on grasping the actual situation of the building, extract and organize key information, and then create creative ideas.

3. Principles of Architectural Space Design Based on the Concept Of Harmony Between Humanities and Ecology

The most important principle in modern architectural space design is the ecological principle. By adhering to the principle of ecology, it is more conducive to reflecting the health and livability of architectural space design, and achieving exquisite, economical, and intensive effects. Architectural space design is a systematic and complex task. During the actual implementation of design work, it often involves multiple aspects and is influenced by many factors. Different elements also have interdependent relationships, which is of great significance in comprehensively improving the quality of architectural space design and construction quality. Specifically, the integration of humanistic and ecological harmony concepts into architectural space design requires designers to first establish a good humanistic and environmental awareness, emphasizing resource and energy conservation in engineering construction. Secondly, during the process of architectural space design guided by the concept of humanistic and ecological harmony, designers also need to integrate with the surrounding natural ecological environment, especially the integration of artificial and natural environments, in order to make the architectural space design develop towards a more natural and healthy direction.

3.1. Green design principles

In the design of architectural spaces based on the concept of harmony between humanities and ecology, designers are required to always adhere to the principle of green design. At present, with the continuous development of China's construction industry, higher requirements have been put forward for construction projects. On this basis, it is not only necessary to ensure the quality and safety of construction projects, but also to pay attention to the ecological impact they bring, creating a better living environment for people. By adhering to the principle of green design, it is more conducive to promoting balanced development between buildings and the surrounding ecology. Therefore, it is necessary to effectively grasp the combination of the architectural environment and the surrounding natural environment, and then bring

people the enjoyment of natural atmosphere in multiple aspects such as vision, hearing, and touch.

3.2. Sustainable development principles

In the design of architectural spaces based on the concept of humanistic and ecological harmony, designers need to always adhere to the principle of sustainable development. The principle of sustainable development is also a strategic goal proposed for China's current socio-economic construction. Under the guidance of the principle of sustainable development, it is necessary to ensure the integrity and coordination of internal design, and to effectively integrate architectural planning and design with the surrounding environment. Prioritize multiple aspects such as resource and energy conservation, protection, and ecological environment protection. For example, in resource and energy applications, clean and renewable energy can be chosen, while in building material applications, non-toxic and harmless materials need to be the primary consideration to improve the overall effectiveness of building space design.

4. Elements and Creative Ideas of Architectural Space Design Under the Concept of Harmony Between Humanities and Ecology

4.1. The embodiment of humanistic values

In architectural space design based on humanistic and ecological concepts, designers are required to reflect humanistic values. The humanistic values are mainly reflected in the core values of truth, goodness, beauty, and so on. In terms of architectural space design, the first step is to reflect aesthetic value. Architecture itself is not only a material carrier, but also an artistic form that requires designers to reflect their pursuit of beauty in architectural space design, ensure the quality of the building, and achieve a more spiritual spatial environment. Secondly, it is necessary to reflect the functionality and comfort of the building. The value of architecture is reflected in the value of human use, so it is necessary to grasp the real needs of good people in architectural space design and improve the comfort of people in building use. Designers also need to consider the real needs and feelings of users during the specific design period, in order to create a safer, more comfortable, and convenient building space environment. Finally, there are historical and traditional factors. In architectural space design, it is necessary to adhere to the principle of adapting to local conditions and consider multiple aspects such as local history, culture, customs, etc., in order to design the style of the building, improve people's sense of identification and belonging to the building, and also achieve the inheritance and promotion of excellent traditional culture. In addition, in architectural space design based on history and tradition, designers also need to demonstrate inclusivity when facing different groups, be able to respect the needs of different groups, and create a more diverse spatial environment.

4.2. The application of regional culture

Regional culture refers to the unique culture formed within a specific geographical area. Culture includes historical culture, customs and habits, etc. By applying regional culture in architectural space design, it is more conducive to enhancing people's sense of identity and belonging to the building. Specifically, the application of regional culture in architectural spatial design mainly includes aspects such as building

appearance and internal layout. From the perspective of building appearance, it is more reflected in the appearance style of the building, including but not limited to the color, materials, shape, etc. of the building. For example, in ancient Chinese architectural design, red doors and windows and curved roofs were often used. From the perspective of the influence of regional culture on the internal layout design of buildings, it is mainly reflected in many regions that when planning and designing the interior of buildings, traditional etiquette is often referred to for layout, and lighting and ventilation facilities are designed in combination with the local natural climate environment to improve the comfort of indoor living. It can be seen that in modern architectural space design, the application of regional culture is very important. By properly applying regional culture, on the one hand, it can reflect the identity of local people; On the other hand, it is also possible to inherit local culture, and designers need to effectively analyze and consider regional culture, combine it with the actual situation of the building, and make targeted applications.

4.3. Reasonable application of clean energy

In architectural space design based on the concept of humanistic and ecological harmony, designers are required to effectively apply clean energy. By applying clean energy reasonably, on the one hand, it can reduce the consumption and waste of traditional non renewable energy. On the other hand, it can improve the ecological environment and achieve sustainable development. Specifically, designers need to apply renewable materials in the construction of building decoration projects, while ensuring that the selected materials are non-toxic, harmless, and environmentally friendly, in order to meet people's needs and improve the health of building living. Among them, solar energy resources, wind energy resources, etc. can be utilized to reduce the consumption of traditional energy. In addition, in the application of clean energy, it is also necessary to do a good job in building lighting design, ventilation design, insulation design, etc. Through the above design, it is more conducive to regulating the indoor environment of the building, reducing people's use of air conditioning, heating and other facilities, and thus reducing overall energy consumption.

4.4. Green interior space design

In architectural space design, there is often a very close connection with the building structure. Through high-quality architectural structural design, it is more conducive to improving the natural lighting and ventilation rate inside the building, while reducing the material consumption of construction, and effectively avoiding subsequent secondary indoor space design, thus achieving better design results and reflecting the concept of harmony between culture and ecology. Specifically, in architectural space design, designers should, on the one hand, do a good job in conserving conventional energy; On the other hand, it is necessary to apply new building materials in design, including but not limited to the application of heat absorbing glass, heat reflecting glass, insulation, etc. Through the application of these new building materials, more ideal insulation and thermal insulation effects can be achieved, thereby controlling energy consumption. Afterwards, in the interior space design of buildings, it is also necessary to apply clean energy such as solar energy, and in the design of lighting fixtures, the concept of green energy conservation should also be implemented. LED lighting fixtures can be chosen to have good energy-saving effects on one hand; On the other hand, it can also improve the lighting effect.

4.5. Optimization of internal spatial layout in buildings

In the design of architectural space based on the concept of humanistic and ecological harmony, designers need to make reasonable planning for the internal spatial layout of the building, formulate planning schemes based on the area where the building is located, determine the structure, appearance, function, etc. of the building, and coordinate color matching, while improving the aesthetics and comfort of the architectural design. Afterwards, reasonable application of elements such as plants and greenery is carried out to comprehensively improve the overall design effect.

5. Conclusions

In summary, in modern construction projects, architectural space design is a very important component. In order to comprehensively improve the overall quality and effectiveness of architectural space design, it is also necessary to integrate the concept of humanistic and ecological harmony. By comprehensively integrating the concept of humanistic and ecological harmony into science, it is more conducive to improving the comfort brought to people by the architectural space, and at the same time improving the surrounding environment, achieving the effect of harmonious coexistence between humans and nature. In practice, designers are required to take into account the actual situation of the building and make targeted considerations, including but not limited to the embodiment of humanistic values, regional culture, and the utilization of clean energy. They should approach from multiple perspectives to achieve more ideal results in architectural space design and achieve the goal of healthy development.

Conflicts of Interest

The authors declare that there is no conflict of interest regarding the publication of this article.

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