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UDC 624.01

### **Influence of Chinese ancient architectural materials on civil engineering in Belarus**

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#### Annotation:

This study examines the influence of traditional Chinese architectural materials in Belarusian civil engineering. It analyzes the use of wood, tiles, bricks, and decorative elements, highlighting their role in enriching Belarusian architecture's visual appeal, color combinations, and structural designs. The research also explores how these materials foster cultural

integration and diversification, impacting design concepts, construction techniques, and market competition in the local industry, thereby injecting new vitality and creativity into Belarusian construction.

## 1. Introduction

Chinese traditional architectural materials, with their unique aesthetic and technical values, are gradually occupying a place in the architectural design of Belarus. By drawing on the design concepts of Chinese ancient architecture, Belarusian architects have made innovative attempts in the application of materials such as wood, tiles, and bricks. This not only enhances the cultural connotation and artistic atmosphere of buildings but also promotes the technological progress and market development of the local construction industry. This article will deeply discuss the specific application examples of these materials and their profound influence on the architectural design and industry development of Belarus.

## 2. Application examples of Chinese ancient architectural materials in Belarusian architectural design

### 2.1 Application of wood

In some characteristic construction projects in Belarus, the use of wood in Chinese ancient architecture will be borrowed. For example, in some small characteristic buildings such as leisure pavilions and landscape sketches, a wooden structure frame similar to that of Chinese ancient architecture may be adopted. Although the local wood resources in Belarus are different from those in China, in terms of craftsmanship and structural design, Chinese mortise and tenon structure and other technologies can be referenced to make the building not only stable but also show the natural beauty of wood. For example, in some parks or private courtyards in Belarus, some wooden pavilions with an oriental style will be built. The connection method of the columns and beams may draw on the mortise and tenon craftsmanship of Chinese ancient architecture to make the entire pavilion structure more delicate.[1]

### 2.2 Application of tiles

In the roof design of some buildings in Belarus, tiles will be used to increase the characteristics and beauty of the building. There are rich varieties of tiles in China, such as small black tiles and glazed tiles. Their unique shapes and colors can add a unique charm to the building. At the same time, the drainage and insulation functions of tiles can also provide guarantees for the practicability of the building.

### 2.3 Application of brick materials

Chinese blue bricks also have certain application potential in Belarusian architecture. Blue bricks have a simple texture and good durability and can be used in parts such as building walls and fences. In a neighborhood renovation project in Belarus, it is used to create buildings with historical and cultural atmosphere.[2]

#### 3. The influence of Chinese ancient architectural materials on local architectural design in Belarus

##### 3.1 In terms of architectural style and aesthetics

###### 3.1.1 Enriching the visual elements of architecture

The unique texture, color, and texture of Chinese ancient architectural materials bring new visual feelings to Belarusian architecture. For example, the simplicity of blue bricks, the depth of blue tiles, and the natural texture of wood make the building appearance more characteristic and artistic. The application of these materials breaks the uniformity of traditional Belarusian building materials and adds more layers and details to the building, enriching the visual expression of local buildings.

###### 3.1.2 Adding oriental charm

The application of Chinese ancient architectural materials brings oriental aesthetic tastes and cultural atmosphere to Belarusian architecture. For example, in some building decorations, Chinese carving and colored painting techniques are adopted, or the layout and space design of Chinese architecture are borrowed to make the building have a unique oriental charm and enhance the cultural attraction of the building.

##### 3.2 In terms of building structure and technology

###### 3.2.1 Inspiring new structural designs

The unique connection methods such as the mortise and tenon structure of wood in Chinese ancient architecture provide new ideas for Belarusian architectural designers. This structural method not only has high stability and firmness but also can show the beauty of architecture craftsmanship.

###### 3.2.2 Promoting the inheritance and development of traditional crafts

The application of Chinese ancient architectural materials requires certain traditional crafts and technologies, which prompts Belarusian construction craftsmen to learn and master these crafts. For example, in the aspects of laying blue bricks, laying blue tiles, and processing wood, Belarusian craftsmen have inherited and developed related traditional crafts through exchanges and learning with Chinese craftsmen, improving the technical level of local construction.

### 3.3 In terms of cultural exchange and integration

#### 3.3.1 Enhancing cultural identity

The application of Chinese ancient architectural materials in Belarus promotes cultural exchanges and mutual understanding between the two countries.[3] Through contact and appreciation of buildings using Chinese ancient architectural materials, the Belarusian people have a deeper understanding and recognition of Chinese culture and enhance their sense of identity and favorability towards Chinese culture.

#### 3.3.2 Promoting the integration of multiculturalism

The introduction of Chinese ancient architectural materials makes Belarusian architectural culture more diversified. Architecture, as a carrier of culture, integrates the cultural elements of China and Belarus, forming a unique architectural style and cultural landscape.

4. The influence of Chinese ancient architectural materials on the local construction industry in Belarus

### 4.1 In terms of design concepts

#### 4.1.1 Broadening design ideas

The introduction of Chinese ancient architectural materials brings a new source of inspiration for Belarusian architectural designers. Traditional Belarusian architectural design is relatively limited in material selection. The unique texture and aesthetic value of Chinese ancient architectural materials such as wood and bricks prompt designers to break out of the inherent thinking mode and explore more diversified design possibilities. For example, the natural texture and warm color tone of wood inspire designers to use more wood elements in interior design to create a warm and comfortable space atmosphere; the simple shape of bricks can be used to create a building appearance with historical charm, adding a cultural heritage to modern architecture.

#### 4.1.2 Integrating multiculturalism

The application of Chinese ancient architectural materials promotes the integration of culture in Belarusian architectural design. Architectural elements from different cultural backgrounds collide with each other, inspiring designers to create architectural works that combine the characteristics of China and Belarus.

### 4.2 In terms of material market

#### 4.2.1 Enriching material choices

The entry of Chinese ancient architectural materials brings more choices to the Belarusian building material market. In the past, the

Belarusian building market mainly relied on local materials and some common imported materials. Now, the appearance of Chinese ancient architectural materials provides designers and developers with more personalized choices.

#### 4.2.2 Promoting market competition

The entry of new materials will inevitably lead to competition, which prompts local building material suppliers in Belarus to continuously improve product quality and service levels to deal with the competitive pressure from Chinese ancient architectural materials. At the same time, competition also helps to reduce the price of building materials, benefit consumers, and promote the healthy development of the entire construction industry.[4]

#### 4.3 In terms of industry development

##### 4.3.1 Driving the development of related industries

In Belarus, the application of ancient Chinese building materials has not only affected the construction industry itself, but also driven the development of related industries. For example, many industries such as brick and tile production, wood processing, and building decoration have developed due to the increasing demand for ancient Chinese building materials, which not only created more jobs, but also promoted the diversified development of the Belarusian economy.

##### 4.3.2 Enhancing the international influence of the industry

Some characteristic construction projects have become new business cards of Belarus, attracting more international tourists and investors. This helps the Belarusian construction industry to integrate with the international community, expand the international market, and promote the sustainable development of the industry.

#### 5. Conclusion

The application of Chinese traditional architectural materials in Belarus brings new inspiration and aesthetic elements to local architectural design, promotes cultural exchanges and integration. The unique characteristics of these materials make Belarusian architecture more colorful in visual and structural design. Meanwhile, the Belarusian construction industry has improved technology and competitiveness by learning Chinese traditional crafts.

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UDC 337.6

## **Investigation and Research on the Current Situation of Higher Vocational Education Curriculum in China**

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### **Abstract:**

The purpose of this study is to reveal the existing problems and put forward corresponding improvement countermeasures through a comprehensive investigation and analysis of the current situation of higher vocational education curriculum in China. The significance of this study is as follows: on the one hand, it provides a scientific basis for the education administrative department to formulate relevant policies and promote the reform and development of higher vocational education; On the other hand, it provides a reference for higher vocational colleges to optimize the