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Abstract The mountain environment is the combination system of the natural geography, biology, humanities, economy and technology. Changing any one of these factors has impact on the overall environment. Therefore, mountain building should require more on the ecological awareness. Traditional houses are affected by the local economy, resources, climate, technology and other factors. And the naturally formed passive ecological concept fit well with the low cost, low technology, low energy consumption, low pollution and ecological design principles that the international community have advocated. This paper puts forward the mountain building passive ecological strategy and design method through collecting, sorting and analyzing the eco-building experience of traditional houses in the Miao nationality villages in Guizhou province. It expects to offer some enlightenment of creating geographical environment friendly, low-tech, modern ecological buildings.

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Study on Traditional Miao Dwellings Based on Passive Ecological Strategy

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Keywords: Traditional Dwellings of Miao, Passive Design, Ecological Technology, Passive Ecological Strategy.

Abstract. The mountain environment is the combination system of the natural geography, biology, humanities, economy and technology. Changing any one of these factors has impact on the overall environment. Therefore, mountain building should require more on the ecological awareness. Traditional houses are affected by the local economy, resources, climate, technology and other factors. And the naturally formed passive ecological concept fit well with the low cost, low technology, low energy consumption, low pollution and ecological design principles that the international community have advocated. This paper puts forward the mountain building passive ecological strategy and design method through collecting, sorting and analyzing the eco-building experience of traditional houses in the Miao nationality villages in Guizhou province. It expects to offer some enlightenment of creating geographical environment friendly, low-tech, modern ecological buildings.

Introduction

Arcology Has Become the Development Tendency of Building. In present-day society, the theme of the sustainable development requires the architect objectively to make sure the building locking into environment from the ecological and green standpoint. Arcology has become the development tendency of building in the future. The specific topography and regional climate condition of the mountain area, makes it more complicated and sensitive to construct a building, than in plain area city. Therefore, the building of the hilly city will give more emphasis on ecological design, reducing the environmental damage, and realizing the sustainable development.

Mountain Building is more appropriate to Adopt Passive Ecological Technology. Energy conservation of the building include active and passive. Active focus on high-Tec, take the mandatory energy system instead of the conventional energy, creating "comfortable" environment; Passive focus on the dynamic adaptive "low-Tec", reduce the conventional energy consumption, build "adaptive" environment. Mountain buildings are restricted by the complex geographic conditions and relatively backward economic factors. So buildings have to adapt to the natural environment. Passive ecological technology is the inevitably choice of the energy conservation of the mountain buildings.

Meaning of Ecological Technology Research in the Traditional Dwellings in Mountainous Cities. The traditional dwellings developed through long-term natural selection. There includes many design strategies which generated in low technical condition and in original ecological. Xijiang Thousands Households of Miao makes full use of local materials and construction techniques. It contains ecological significance that can create high comfortable, low energy consumption of residential space environment [1]. We can get the passive and low-Tec ecological strategy through analysis of the Miao traditional dwellings passive ecological experience.