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Cantilever Structures' Environment Symbiosis Technologies in Mountainous Housings

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Keywords: Housing, Cantilever Beam, Symbiosis Principle between Human and Environment, Mountainous Architecture, Regional Materials, Native Characteristics

Abstract. Fenghuang Miao minority's housings have been clearly divided into two types in the previous series of researches, and it is one of the main theoretical basis of this paper. Furthermore there are recess entrance porches and overhanging eave spaces between interior and exterior spaces in Miao minority's housings, and it is the Miao minority housings' regional characteristic. The important characteristic is analyzed in this paper basing on past researches. The recess porches are low and deep in Type 1, and high and shallow in Type2. The recess porches and overhanging eaves were changed relatively, the recess porches got shallow and the eaves got deeper from Type 1 to Type 2. Through the analysis of the changing from the linear pattern to curve pattern cantilever beams and their characteristics, it is defined that the curve pattern cantilever beams are the effective and native characteristic constructions, which made the eaves get expansion.

Introduction

The Kagoshima university architecture department of Japan have carried out surveys and investigations of the China Xiangxi Fenghuang mountainous houses in 1996, the survey spots are Fenghuang Longjiaodong village and Luotuoshan village. Surveys and investigations of Fenghuang Miao minority's representativeness 16 mountainous housings' plans, especially 12 housings' sections among the 16 were carried out. The research purpose is unraveling Xiangxi Fenghuang Miao minority's mountainous houses characteristics through the analyses of data and drawings, enquiry and literature surveys.

In author's previous series of researches [1,2], Fenghuang Miao minority's mountainous housings have been clearly divided into two types. The papers have been published in the Journal of Architecture and Planning (Transaction of AIJ), which are the main theoretical basis of this paper. Furthermore Fenghuang mountainous housings are almost invagination plans, namely, the front entrance bay span was made inward recess porch form which is called Tunkou. The recess porches and overhanging eaves are important regional characteristics, by which semi-exterior spaces are defined (see Fig.1). The Fenghuang Miao minority's mountainous housings' important regional characteristics are unraveled in this paper.

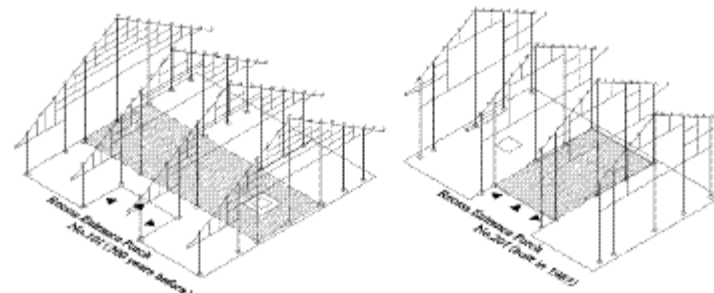


Fig. 1: Fenghuang Miao minority's mountainous housings' diagrams

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