

Review of traditional wooden structure development in Asian countries

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ABSTRACT

Traditional buildings have been handed down generation to generation from long time ago. Traditional buildings especially made of wooden materials have unique characteristics that have been studied until now. Recent studies of the traditional buildings with wooden structure have been conducted to have a better understanding of their preservation and prepare the unpredicted event in the future. The recent studies regarding Korean architecture include the number one treasure, Heunginjimun, which was tested to examine dynamic characteristics and lateral stiffness. In China, a recent study showed the elaboration of behavior of traditional Chinese mortise-tenon joints. In Japan, recent research was done on the dynamic characteristics and seismic performance of traditional wooden structures and the potential of prefabricated traditional joints. In India, it was attempted to evaluate the lateral load behavior of connections in Assam-type wooden house. The similarity of these research programs was that all aimed to study the strength and connection behavior of traditional wooden buildings. This paper discusses the recent studies on the traditional wooden structure and identifies what is needed to develop further in the future.

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