

عنوان مقاله:

Architectural and Climate Coordination in Semnan Traditional House

محل انتشار:

چهارمین کنفرانس بین المللی پژوهش در علوم و مهندسی (سال: 1398)

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نویسندگان:

,Mina Zolfagharkhani - *Master of Architecture, Islamic Azad University of Semnan, Iran*

,shiva Danaie - *Master of Architecture, Islamic Azad University of Semnan, Iran*

خلاصه مقاله:

In every country, heritage plays a significant role in achieving sustainable development. Iran is a vast country with different climatic zones, and, in the past, traditional builders have presented several logical climatic solutions in order to enhance human comfort. In fact, this emphasis has been one of the most important and fundamental features of Iranian architecture. To a significant extent, Iranian architecture has been based on climate, geography, available materials, and cultural beliefs. Therefore, traditional Iranian masons and builders had to devise various techniques to enhance architectural sustainability through the use of natural materials, and they had to do so in the absence of modern technologies. This paper describes the principals and methods of vernacular architectural designs in Semnan, Iran, which is located in a dry and hot area that is one of the unique geographical and cultural regions of Iran. Design and technological considerations, such as sustainable performance of natural materials, optimum usage of available materials, and the use of wind and solar power, were studied in order to provide effective eco -architectural designs for this region. The goal of this paper is to provide the architectural criteria, issues, and insights that had to be addressed in order to provide acceptable levels of human comfort in this arid area. The architectural principals that were developed and used in this extreme climate zone will be beneficial to other architects in the design of architectural structures that provide human comfort in adverse climatic conditions.

کلمات کلیدی:

Traditional house, Semnan, Harmony, Hot and dry climate, Architecture

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