عنوان مقاله:

(Investigation of Hot and Dry Climate in Green Building Architecture and Sustainable Development (Case Study : Reducing Energy Consumption

محل انتشار:

اولین کنفرانس بین المللی طراحی در مهندسی عمران، معماری و شهرسازی (سال: 1402)

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خلاصه مقاله:

One of the main reasons for the expansion and importance of sustainable development in architecture is that construction designers and in general built environments directly affect their surroundings. The environmental effects of any new building are very evident, and when urban houses replace green spaces or residential towers on nearby houses, you can easily criticize the built environment design method. Therefore, the attention of designers to the issues of sustainability in architecture and creating an approach in which buildings are designed in the best way and aesthetically and at the same time cause the least possible damage to the environment, has been one of the important issues in architectural design. Climate has a major impact on building performance and energy consumption. Reducing energy consumption, using natural resources and creating comfortable, healthier and sustainable living spaces are the goals of climate-compatible green building design. At the beginning of this article, with descriptive methods and based on the findings of field research and university studies, we will examine and analyze Iranian architecture in hot and dry climates, especially the city of Kashan. This city has been studied using the available resources and relying on the analysis of the content and values hidden in the native architecture. Findings : The result of the research is used to identify the design elements of Iranian indigenous plans towards a green and sustainable school in the heat. and dry climate. Therefore, the findings of this research are expected to encourage designers to formulate and create guidelines for designing green schools in Iran. Conclusion : In the end, while recognizing and examining the principles of green architecture in educational centers, a suitable design for green architecture in these buildings based on native Iranian architecture using modern technologies is concluded.

کلمات کلیدی:

Hot and dry climate, Kashan, building, native architecture, sustainable, design.