

Particularity study of sustainable architecture in Iran traditional architecture

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ABSTRACT

In the course of formation of the Iranian traditional architecture, ecological designed buildings have been developed because of the existence of the various climate conditions. Due to the necessity of confronting with undesirable environmental conditions, and to reaching the purposes of the sustainable architecture, the use of valuable experiences in design and construction of old and ancient buildings is unavoidable. This article studies the ancient texture of Shiraz as a case study for approaching Iran traditional architecture to sustainable architecture.

Shiraz is located in south of Iran with cold and dry winter and hot summer with relative low humidity. This climate condition is cause of development of a condense population texture along east to west in order to use of desirable wind and satisfactory sunlight. The buildings are designed with a square plane, central yard, using thick brick wall and indented extensive window to proper air conditioning and receiving sufficient light. Overall, these parameters approach ancient texture of Shiraz to sustainable architecture.