

The impact of the environment on different civilizations ...

Architecture as a model

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Abstract:

Environmental issues are considered one of the most prominent issues that have emerged on the international scene as a result of their repercussions on the international community and their effects on sound economic development. The negative relationship between man and the environment and his exaggeration in exploiting its natural resources and carrying out many wrong human activities led to the emergence of a range of destructive environmental phenomena that caused an imbalance in the environmental balance and a rapid deterioration in climate change on a global scale. This, in turn, threatened global peace and security and increased risks to the fate of future generations. The environmental issue has become the biggest and most difficult challenge to achieving sustainability in all its fields. We find that the urban sectors and the significant increase in construction and construction of cities and buildings are no longer isolated from pressing environmental issues. Where technological and technological development in the field of contemporary architecture has led to ignoring the natural environment, Due to its irrational consumption of energy and natural resources and its production of large quantities of pollutants and harmful waste, in addition to the problem of wasting energy in buildings due to its continuation throughout the period of the building's operation without paying attention to its suitability to the surrounding social and climatic environment. Which requires taking serious measures to solve these problems by establishing a reciprocal relationship between sustainability and the design aspects of the building by finding energy-saving environmental solutions, guided by the creative solutions of traditional civilizations that worked hard to prepare their internal and external environments and adapt them according to the physical requirements, by creating design treatments and architectural vocabulary based on Hence the need to shed light on the importance of studying traditional architectural vocabulary that succeeded in adapting to harsh environmental conditions and was able to exploit all natural energy sources such as the sun and wind, and how to benefit from them and employ them in contemporary local architecture.

Study Problem:

- 1- The lack of available studies on the impact of the environment on traditional civilizations.
- 2- There is a lack of knowledge regarding the role that sustainability plays in preserving the environment.
- 3- The need to study the architectural vocabulary and design treatments used in the architecture of traditional civilizations and determine their characteristics as vocabulary for climate treatments.

Study Aims:

- 1- This research paper contributes to clarifying the interactive relationship between humans and their environmental surroundings and the impact of each on the other.
- 2- Emphasizing the importance of exploiting the potential of the surrounding environment and developing its resources on scientific grounds with the aim of enhancing environmental belonging and achieving environmental sustainability.
- 3- Adopting environmental design within the intellectual and technological context of contemporary architecture and revealing its role in achieving sustainability.
- 4- Taking advantage of the urban heritage of design solutions in traditional civilizations and monitoring architectural vocabulary in terms of form and function to create a contemporary sustainable environment that fulfills the general requirements of humans in terms of comfort, functional and social efficiency while ensuring continuity of performance efficiency in the future.

Study Hypotheses:

The research assumes that when taking advantage of global technology data and applying it to traditional architectural vocabulary in accordance with the local environment, this works to achieve a homogeneous urban system and improve the environmental, economic and social returns in a sustainable manner.

Study Approach:

The research methodology was as follows:

- 1- Building a theoretical framework that addresses general concepts about the environment, sustainability, environmental design, and architecture.
- 2- An analytical study of a global architectural model, evaluating the technological development of architectural vocabulary and the traditional design treatments used in it, and identifying how to benefit from them in local architecture to achieve environmental sustainability.
- 3- Verifying the study hypothesis.
- 4- Reaching results and conclusions.

key words:

Environment - architectural vocabulary - environmental design - sustainability - architecture.