

Raising the efficiency of environmental treatment of a specific nature to identity of Arab architecture using Nanotechnology material

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Abstract

The idea of the research is based on the attempt to revive and restore the usual usage of passive environmental architectural treatment techniques in the architecture of Arab region especially the Arab republic of Egypt which are used since the beginning of the ancient Egyptian era till the Mamluk architecture to suite the 20THS century modern building techniques by using new materials with modified properties using nanotechnology techniques to make them more efficient and compatible with modern techniques. Besides attempts to use positive treatment and self-propelled techniques which are designed in European atmosphere and make suitable for hot and dry or humid atmosphere in Arab region using high-tech in the latest materials of Nano-techniques ,After the practical experiment had proved in a lot of abroad designed buildings that use these techniques had some basic issues that hinder their performance in the hot regions especially the Arab Republic of Egypt and the rest of the Arabian peninsula countries.

Methodology:

The research will be based on a theoretical and applied study using environmental computer applications working on a technical simulation to raise the environmental efficiency of three buildings within the Arab Republic of Egypt, by using nanotechnology techniques, which are newly constructed buildings or still under construction now, as well as identifying the extents of efficiency development and the energy reduction on one hand and preserving the character and identity on the other hand.

The building used in the study are the American University building in Cairo in the last phase (Mamluk-post modernism-new Islamic post modernism), Ministries complex building in ministries district of the new administrative capital In Cairo (New pharaonic-high tech) and vertical city center buildings in the new Alamien city west Alexandria city(newmodernisms).

Biography

He Experienced Field Service Coordinator with a demonstrated history of working in the oil & energy industry. Skilled in Petroleum, Customer Support, Cement, Energy Industry, and Fluids. Strong operations professional with a B.sc focused in Mechanical power engineering from Faculty of engineering-Alexandria university.



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