

التأثير التقني والجمالي لتطبيقات النانو تكنولوجي على تصميم الواجهات المعمارية

The technical and aesthetic impact of nanotechnology applications on the design of architectural facades

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Abstract:

Nanotechnology is a technology that has recently been used in the fields of arts and architecture. It is the technology that gives us the ability to directly control the behavior and properties of raw materials at the nanometer level to accurately reconstruct them and thus build materials with new environmental and aesthetic properties and capabilities. To design architectural facades with creative and aesthetic values that are environmentally friendly, capable of saving energy, can be reused in the event of demolition of the building, and help to regulate aesthetic harmony with nature to achieve required levels of comfort. It is possible to call our next era (Nanotechnology era) because of this technique a lot of influences in the fields of arts, architecture and materials technology in particular, and in various areas of life in general.

Accordingly, the study deals with a brief study of nanotechnology, its stages of development and its uses, how it developed from the performance of traditional building materials, and the development of new materials and its role in opening up new horizons for the decorated and architectural designer to design architectural facades capable of solving many of the design, economic and aesthetic problems of our present time.