

ذرات الطينة الألكترونية (Catoms) كأحد التقنيات المستقبلية في نمذجة وتعديل أفكار التصميم

Claytronics atoms (Catoms) as one of the future techniques in modeling and Modification design ideas

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Abstract:

Calytronics atoms (Catoms) are an advanced version of nanotechnology which is the smallest material that can be programmed so that they can interact with each other to form tangible 3D physical forms that the user can interact with and can also change the shape and function of objects. The designer can use this technique, which is still in growth and development stages of modeling design ideas, in a way that enables him to deal with the resulting model and make any modifications and save these modifications without dealing with the computer or mouse or keyboard. The research problem is summarized in determining the importance of this futuristic technology in the field of modeling and modifying design ideas for the industrial designer. The research aimed to access to the importance and use of Catoms technology in modeling and modifying design ideas. To achieve this goal, the research used the analytical descriptive method by identifying what the claytronics atoms (Catoms) are, their components, types, programs used to control them and how it work. In addition to their applications in the field of 3D modeling, methods of modeling design ideas to determine the importance of this technique in the field of modeling and modifying design ideas. One of the most important results of this research is to highlight this futuristic technique, which will be a breakthrough in the field of modeling and modifying design ideas, In addition to defining the designer how to use this technology and its importance in the modeling and modification of design ideas. One of the most important recommendations of the research is that designers should research and follow the development of this technology because of its future importance in modeling and modifying design ideas.

Keywords: Nano technology, Calytronics atoms, Prototyping design ideas.