

Nanotechnology and its role in the Development of Contemporary Sculptural Thought

Assist. Prof. Dr. Manal Helal Ayoub

Assistant Professor of Sculpture Department, Faculty of the Applied Arts, Helwan University

drmlhelal@gmail.com

Dr. Marwan Abdu-Allah Hussien

Lecturer in, Faculty of the Applied Arts, Helwan University

marwan_hossien@a-arts.helwan.edu.eg

Researcher. Sahy Hassan Fahmy

Freelance Designer

Sahy_hassan@hotmail.com

Abstract:

Technology is considered a science that has its origins and theories and is considered a process that is constantly evolving and improving, This research deals with the impact of nanotechnology and its role in the development of Contemporary Sculptural Thought, as it is one of the most prominent modern technological trends that may cause a qualitative shift in the field of architectural sculpture making transforming science fiction into reality based on scientific research that helps to apply these modern inventions possible, in addition to its several usage fields starting from the influence in the initial stages of design to finishing touches, especially in the selected materials, that don't only affect design but also have a great impact on the designers thoughts according to large scope of options that are provided by the technique.

Designers main target during designing process has become how this design comprises all needs and matches all generations; that means it is sustainable. These old materials - processed upon by nanotechnology - that have been used in their designs are called smart materials as they possess properties of more than one material facilitating performing modern sculptural designs that never had to be before.

Therefore, this research will show role of nanotechnology on unexpected and modern designers' creativity that is inspired by nature and free from traditional design and structural constraints, besides, studying some Nano-processed materials and how their properties are modified by moving some atoms and then rearranging it to produce new smart materials of high quality.

Keywords:

Nanotechnology, Design thought, Contemporary Sculpture.