

الإبداع فى استخدام النظام الشبكي ببرامج الحاسب ثلاثية الابعاد فى تصميم المنتجات
**Creativity in the use of Grid system of the computer three-dimensional
programs in the product design**

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Abstract:

In the field of product design, the design elements with its importance and characteristics is not able to show the aesthetics of design as a body before it is a product, each of these elements has its nature, characteristics and importance.

In order for these elements to be effective, these elements must be put in their proper aesthetic proportions to show their value and influence in the design.

It is necessary to organize the relation between these elements and their relation to the mass and space. Hence the role of the grid system arises, where the grid system is a way to organize the different elements in the space of the design.

The problem of research has been established that despite the use of industrial design technology in two-dimensional design, however its use in three-dimensional product design is not widely used. Although for many decades three-dimensional design capabilities have been developed through digital design techniques, design programs, and computer manufacturing.

A team of designers in general and product designers in particular still see that adherence to the web system in design is a kind of restriction of creativity freedom.

The research aims to reach the stage of creativity in the grid system using the three-dimensional computer programs in products design, and to recognize the importance of using the grid system and what it can add to the designer and the design.

The research found that relying on the grid system in the products design using three-dimensional computer programs does not interfere with the achievement of creativity in the design and it can help the designer to reach faster the creativity stage and to put a lot of values of balance and uniqueness in the products design.