

**Physical and non-physical dimensions of the product and their importance
for the designer**

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Abstract;

The research claims that there are other dimensions of the product rather than the known materialistic-dimensions, by revealing those dimensions the designing process will be improved.

The research aims to;

- 1- Proving that the multi-dimensional products and those dimensions aren't only physical, but there are also moral dimensions.
- 2- Introducing those dimensions and their importance to the designer as they are the essence of the designing process, as it will improve, support and strengthen the product design.

The most important results of the research are;

The product is multi-dimensional and those dimensions some are physical, the others are moral "metaphysical", introducing those dimensions and their importance to the designer as they are the essence of the designing process as it will improve, support and strengthen the designing process,

The most important research recommendations are;

The industrial designer must always seek every new thing in his specialty, from the innovative science that are related to design the products especially the nonphysical science as those science has deep philosophy that can elevate the product quality and attract the user to it.

Phenomenon under Study

Recently, there have been several disputes over the number of dimensions in the universe. It is well known that there are three basic and main dimensions of any body, i.e. (length, width and height). Scientists have reached beyond that; they found that there are more than 26 dimensions, the essence of which is to be known in order to determine whether or not they are all visible and tangible.

A designer always inspires everything from nature; that is why things that happen in the universe have to relate with any designed product since the design is a creation but at the level of human abilities, and the vast universe is created by the Almighty. Now, we inquire whether or not these dimensions are important for the industrial designer, and to which extent they are important and effective on the process of design of the product during the design and even after the production?

• Key Words

Physical Product Dimensions, Non-Physical Product Dimensions, Industrial Designer

- Study Claim :

The current study claims that the product has several dimensions other than such tangible physical, known dimensions. When these dimensions are detected, the design process will be improved and the design that is ideally achieving all aspects will be found.

- Objectives:

- 1- The study aims to prove the claim that the product is multidimensional; there are visible and invisible "metaphysical" dimensions.
- 2- Clarifying such dimensions for the designer and their importance for the product design because they are the "core" of design process, and without them the product will be only a commodity of no value.

- Approach

- Inductive Analytical Approach

- The research plan:

To prove the claim we have to follow a plan to reach the goal:

When a man faces a problem he starts to think, if there are some information available about the problem the thinker rely on those information, and even may ask for more to reach the unidentified elements of the problem, using evidence in its general concept is the rational process that the transfer between the known and the unknown is happening through it, we should at first identify the present dimensions in the universe, then clarifying that relation among those dimensions and the products and whether they are all visible or not and how many are they?

First; The product physical dimensions (related to the product and the environment):

- 1- The 3 basic dimensions (the visible).
- 2- The fourth dimension "time & place" and the product.
- 3- The fifth dimension "vibration and shaking"
- 4- The sixth dimension "emerging & radiation"
- 5- What is after the sixth dimension?

Second; the product physical dimension (related to product with the user):

- 1- Functionality dimension.
- 2- Argonomic dimension
- 3- Marketing dimension.
- 4- Technological dimension.
- 5- Educational dimension.
- 6- Quality dimension.

Third; the product nonphysical dimension;

- 1- Isotric dimension to reach the wisdom in the design
- 2- Vision dimension that is personal to the designer.
- 3- Knowledge dimension.
- 4- Emotional dimension.
- 5- Aesthetical dimension.
- 6- Economical dimension.
- 7- Moral dimension.

Cultural and religious dimensions.