

## The Formations of Space and Its Innovative Role in Clothes Design

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### **Abstract:**

The movement of variables in design has been associated with innovation, creative thinking and latest developments that are always accelerating and rotating.

Innovation is one of the most important aspects that distinguishes art and scientific progress, in the field of fashion design, especially in recent periods.

Out of the ordinary, is considered a goal, for everyone, who wants to develop, and leaves a clear imprint on fashion design history.

Especially since technology currently, greatly supports innovation and development, in contemporary fashion design.

This has been confirmed by the most famous current fashion designers.

Where designs and technology-based configurations are clearly, unique and innovative designs.

Space formations are one of the foundations and artistic concepts that have added to art creativity in postmodern arts. Since the beginning of the twenty-first century, artworks have taken a new direction, that takes the concept of space formations, as a starting point for the formation's creativities.

The concept of space formations and the resulting formations from it that have been influenced through the shape and content, and how they affect the recipient, is an important topic to research for innovative objective values, of the nature of design.

Which illustrates the high ability of the contemporary artist to create his vocabulary according to formative formulas that appear to be based on innovation, as a concept that is identical to evolution.

Based on the above, and through the researcher's view of contemporary fashion designs for a group of international fashion designers.

A problem was found in deepening the concept of formations space in fashion design, including concepts that can be an important source of innovation, consistent with the future vision of the designer. For how to prepare modern fashion designs for fashion?

**Through this, the researcher was able to summarize the research problem based on the hypothesis in the following questions:**

1. What are the artistic foundations of the formative configurations of space, which affect the achievement of innovation in fashion design?
2. What are the foundations and values, that can be used to analyze the role of the formations of space, in fashion design.?

Accordingly, the researcher found an explanation for the research problem in revealing its Philosophy, (the formations of space and its innovative role in fashion design).

The importance of the research: The importance of the research is highlighted in identifying,

the foundations and formative values, that can be relied upon in analyzing the formations of space, in fashion design, and learning about how to formulate the design idea in a way that achieves a direct relationship with the recipient, through innovative, variables, that are based on the formations of space.

The research contributes to the promoting designs and the studies which are applied on fashion designs, and put them in front of designers and stakeholders in the fashion industry.

### **The research goal:**

The research aims to determine the role of the artistic foundation's values and formations of space and their effects on fashion design innovation.

### **The search limits:**

The objective border: women's fashion designs that depend on the innovative formative space formations.

In order to achieve innovation, designs were obtained from the research samples, from the works of the most famous contemporary fashion designers, in a manner consistent with the objectives of the research.

The research sample reached to 15 designs.

The group was chosen as a model intentionally and by 33 % Of the research sample. which consists of 5 designs.

### **And the researcher took into consideration the following points:**

1. The semantic diversity of the types of space, used in formations in designs, the diversity of designers, the diversity of design visions and ideas, and the variety of seasons and the years of designs, this includes the study of development and diversity of materials, used between advanced materials and familiar materials.
2. Models that accurately reflect the concepts of innovation and apparent diversity in design.
3. The formations of the space, which are related to the designs, and they can be used for wearing, not for showing only.

### **Spatial boundaries: the role of global fashion design.**

the Time limits: 2010-2020.

Research methodology: The researcher followed the descriptive analytical research method. (analyzing models of fashion designs, in order to achieve results that enhance the aims of the research, for the purpose of revealing innovative thinking, and formatives of space in contemporary fashion designs).

Research tools: a form for identifying the axis of analysis, which including the most important, results of the theoretical framework indicators, as they were presented to experts specialized, in the field of fashion design and drabbing.

### **The formations of space and their innovative role in fashion design:**

The concept of space formation has emerged in the various forms of fields to reflect the thought and culture of the age. Recent trends have appeared in the formation of the space during planning for the design. It was used to show integration, balance, repetition, proportionality and

movement, as the formation of space is an important element that influences the designs prepared, as it affects the systems, the rest of the other elements, and foundations of design.

Through the use of space formations in design, expressive and artistic value in the field of fashion design can be reached, besides it reflects the freedom of the designer to use all possible forms, without being attached to the traditional methods of communicating ideas through it.

Herbert Reed believes that and quoted that the artist must think about the size of the shapes in space, in light, in the shadows, in close association with each other. They are all aspects of the artist's sense of space formations. The mass is the solid space formations. Shadow and light are the effects of mass in relation to space formations.

The concept of formations of space has been linked to artistic works, sculptures and stereoscopic arts, more than fashion design, although space is one of the elements of fashion design, and cannot be ignored, as an influential element in the design, carrying inside it artistic formative values that add to the outfit, a different concrete or formative values in a way that expresses the unity of formation. It has become noticeable recently that many fashion designers are keen to keep pace with development and modernity and the use of innovative thinking that carries ideas, flexibility, and uniqueness of ideas, and the use of space in designs more clearly than before and the creation of formations of the innovative space and exploited the technological development in raw materials and industry as a whole.

To think about how to form a space shapes and find the relationships between the physical form and the expressive content of the components of the design structure, two groups of factors must be taken into consideration.

First: factors that affect the perception of the relationship between shape and space formation (the size of the space formation parts - the density of the space formation parts - convexity, and concavity - pressure) where the effect of design varies that contains space formations that are close in size compared to the design that contains formations of different sizes, in terms of movement, rhythm and harmony, as well as attracting attention.

In addition to the density of these configurations and the way they are distributed in the costume, which greatly affects the appearance of the non-space formation parts more clearly, which achieves confirmation and focus on design parts.

Surface space formation is considered one of the types that are widely used in fashion design. whether through the material in which the shape is equipped, such as net fabric, lace and perforated fabrics in general, or through designs that depend on the permeation of vicious formations in designs and fabrics, in specific places to clarify specific design ideas.

But by integrating technology with design, the use of the convexities, concavities in the space formations has become one of the most recent and prominent contemporary designs, especially with the use of 3D printing fabrics, polyamide and silicon fibers and the direction of design based on the third dimension (depth) and fourth (movement over time), a harmony is formed between the space formations that have convexities and concavities features with clear stereoscopic forms.

Contours of the human body curves is a wonderful aesthetic artistic painting of fashion, emphasizing the consciousness of the designer and being able to understand the ingredients of the space formations and the extent of their effect on the design of the outfit.

The tie Between positive shape and negative space formation is an important factor for achieving balance in design.

In fashion we find that the silhouette is consistent and balanced when the internal pressure of the shape of the body is equivalent to the external pressure of the space formation.

The second group of factors are the factors that influence the esophageal position for shape and space. Fashion designers use these factors to obtain desired effects, while in structural design and decorative design.

When the positive space (shape) is completely surrounded by the negative space, the shape is seen as foreground, while space appears in the background.

It also suggests the use of cold and hot colors in the design depth, especially if cold colors are placed at the end of the design (due to Characteristic undo), warm colors are also placed in the foreground, due to its advanced property and propagation.

### **Theoretical framework indicators**

- 1- The distribution of space formation in design is considering the interconnectedness and unity between the formations of the space, and the relationship of space formation to the solid block in design. Dynamism are basic foundations through which innovation mechanisms are available to form space formations in fashion design, with an emphasis on aesthetic, expressive, and functional aspects.
- 2- The (firmness - depth - strength and weakness - the merging of spaces with each other and with the surrounding space) are the determinants of the formative values of space in design, through which the actual acceptance of the final design is verified.
- 3- The formative configurations of space can achieve innovation in design in terms of originality, differentiation, future visions and leadership of design ideas.
- 4- Visual, cognitive, aesthetic and psychological perception represents the most important mechanisms for the recipient's perception of the aesthetic of design and its expressive connotations under the concept of formative formations of space, through diversification in the size of space parts - density of space parts - convex and concave - pressure), that does not interfere with keeping the design unity.

### **Results:**

Considering the results of the sample analysis, the researcher summarizes the following:

1. It is possible to rely on the analysis of formative configurations of space, and its role in creating fashion design into four axes. Which have proven the results of research and validity in the analysis.

□ The first axis is, in the mechanisms of space formation, in terms of (distribution of space - interconnectedness and unity between spaces formation - the relationship of space by the mass solid in design - the achievement of the formations of space for the foundation of fashion design - dynamic).

□ The second axis is the components of the space formation values and creativity.in design in terms of (anchoring the stereotype - the strength of the spatial form -and its merging with the vocabulary of the design - the effect of the spatial shape on the appearance of the body).

□ The third axis (the originality of the design idea is unique, that depends on the employment, of the formation of space).

□ The fourth axis (value Aesthetic and functional design of the design).

2- The results of the research sample proved that the mechanisms of using the space represented by the distribution of space, and formality, and the relationship of space with the solid mass and dynamic, are among the most important mechanisms that achieve innovation in design. and that the formalities of space in design in terms of firmness of form, and integration in design, have had the greatest impact on innovation.

The results of the sample also confirmed that the space formation confirms the originality of the design idea and reinforces the innovation.

3- The results of the research sample proved that achieving the foundations of design through the formative configurations of space, interdependence and unity among them was less effective in achieving the characteristic of innovation, as did the strength of formal formation and its effect on body appearance with less effect in showing innovation in design and that functional aesthetic values in design have not got strong effect in achieving innovation.

### Suggestions

1- Attention to the descriptive analytical approach in the field of fashion design, because of its importance in enriching the field with theories, scientific foundations, and aesthetic art. Attention to studies related to the art and fashion design relationship, in order to benefit from them in analyzing designs, and to establish aesthetic foundations and aesthetic elements, which are new in proportion to development.

### References:

- eali , 'amal eabd alsamie "'iimukaniat al'astifadat man 'asas wenasraltsmim liziadat alqiam aljamaliat waltamawiyih ealaa alniqat alsalbiat fi bed 'anmat jism almar'at almisria" majalatan bihawth altarbiat alnaweiat aleadad alkhamis jamieat almansura (2005 m): p 5
- ghabrial , muhamad shfyq "almawsueat alearabiati almysr" muasasat dar alshaeb wamuasasat frankilyn liltabaeat walmishraliqahra (1965 ma): p 1279
- eabd alrahmin , suead "tahaqiq aleumq alfaraghia fi eumq alsuwrat bi'iistkhdam khamat alblastik fi majal altajrib fi aleamal alfaniy" risalat majstyr ghyr manshurati kuliyat altarbiat alfaniyat jamieat hulwan (1987 m): p3
- shalabi , rayham hilmi "ayiqaeat khatiyat fi alfaragh" Magalet AL Emara w AL Fenoun w AL Elom AL Insania AL mujalad 1 AL adad alrrabie (2016).
- makhan , samia "alqudrat ealaa altafki al'ibtkary". majalat aleulum al'iinsaniat wal'ajtumaeiat aleadad 21 jamieatan qasidi mirbah w ruqlat aljazayir (2015 m): p 50.
1. Brommer.G. F:1974 Elements of design space, Daus Publications.U.S.A.
  2. Lupo, Adams" Clothing Decision" Glencoe, Publish in Company (U.S.A) (1987): p٢٦٦
  3. SMELIK, ANNEKE (2018) New materialism: A theoretical framework for fashion in the age of technological innovation, International Journal of Fashion Studies, April, Volume 5
  4. Dykes, P Daniel (2016) Backstage at Vivetta Autumn (Fall) / Winter 2016, Fashioising.com ,N 1 Mar.
  5. Julia (2017) This flexible, expandable 3D printed dress adapts to your body's movement, www.3ders.org,3D printer and 3D printing news,6 August.
  6. KARMAL, SARAH ( 2013) Viktor & Rolf Couture: Blink And You'll Miss It,Vouge.co.uk, 12 JULY