Review Article

ASSESSMENT OF APPROPRIATE FEATURES TO DESIGN MEN'S SHIRT FABRIC

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ABSTRACT

The need of human to defend body against natural events has created incentive to innovate clothes and garments. Every tool or facility of life will be considered as an entertainment if it is beyond the basic needs so that it will be different with its simple and primitive form during time. Such tools can be a factor to perform art or taste and style. Men's shirt is the main clothe of men used in different seasons and situations. This study has assessed some factors such as design, color, type and weight of fabric and all features considered in design of men's shirt fabric in order to help designers and producers to perform effectively in this business with emphasizing on mentioned features. Recognizing and survey methods have been used in this applied study to assess the subject. According to these recognitions, it could be found that type of yarn of the fabric is preferably from natural fibers or combination of other fibers such as polyester that has created yarns with different grades. Different methods are used to create different designs and various colors in order to have textures and colors that are well fit together.

Keywords: Fabric Design, Men's Shirts, Appropriate Features

INTRODUCTION

Men's shirt is formal clothing for a man and it is tried to produce this garment in accordance with the need of society and competition in various models along with development of industry and technology. Since the design of this clothe is not very changeable and the type of fabric used in sewing of this shirt is important, fabric designers always try to provide some designs in accordance with different styles, age, social and geographical situations. Designers should recognize important and effective factors such as yarn type, grade, color, printing and weaving techniques in design process in order to provide different styles.

The present study is applied in terms of purpose and is conducted through survey method and interview with authors of this field. The analyzing method of this study has emphasized on recognizing method. This study has been conducted to assess the most important and appropriate features for design men's shirt fabric in order to present some welcomed designs to develop this industry.

Yarn and Fabric

Yarn is produced from integrated and twisted fibers. Fabric is defined as a surface formed from yarns or fibers with special properties such as ability to cover body, ability to be sewed, washable, flexible, iron able.

There are other physical and mechanical properties such as tensile, cutting and bending strength, resistance against air infiltration, durability, comfortability that is itself depend on the type of material and fabric structure (Kamran Matin, 2008).

Type

Some factors can effect on selection of yarn and fabric type such as type of weather or season. Cotton is an appropriate thermal insulation used in more seasons of the year. Today, viscose that is from recycled cellulosic fibers is an alternative to cotton and is used but wool is more applied because of its warmth in cold weather.

There are some important reasons to use artificial fibers or combination of them with natural fibers; these reasons would increase resistance of fiber against wrinkle, would reduce cost price and would raise durability of fabric.

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Grade

In fabric industry, there are some units for quantitative measurement to determine dimensions of yarn and required calculations in preparation of thread and knitting of fabric. This unit is called grade. In fact, the grade of yarn is its numerical expression that is determined through two direct and indirect methods. *Weight of Fabric*

All specifications of fabric are affected by the raw materials used in it. Two direct and indirect methods have been used to determine the weight of fabric. In the direct system, the weight of square meters or the weight of one-meter long of fabric (regardless of the width of fabric) will be announced.

Color of Fabric

According to psychologists, human would percept the color earlier than the form and people are stimulated by color before any other feature. In fact, design and motif of a fabric is percept by human after color is percept (Fekri *et al.*, 2013).

Fabric Texture

Design of fabric texture has a specific role among other factors form a fabric. A beautiful design with appropriate color can be an important step toward fabric production. A design should have rapport in order to have an accurate repetition through the fabric. Rapport is related to a design unit with determined dimensions.

Simple Designs (Basic Textures)

Simple designs of texture are usually knitted through former tonsillar mechanisms and have square rapport. These designs are divided into three categories as follows:

Tafteh (Wreathy) design is primitive and the simplest design. In this design, warp and woofs are appropriately crossing each other. Serjeh design is the second type of texture including tilted lines in surface of the fabric that are ascending or descending. Atlas design that is famous in Persian language with its Germanic name.

Compound Texture Designs

There are more than one series warps and woops used in this type of woven fabrics. Usually these types of fabrics are double layers, multi layers and double surface used for different consumptions. There are some subset of this fabric such as geometric designs (Dobby) and arabesque curve (Jacquard) used in design of men's shirt fabric.

The garments of Iranian people have been formed from various motifs and designs in different eras. Most of these designs have been knitted by specific looms such as Jacquard. Jacquard machine was invented in 1805 by Marie-Joseph in French and this invention made a huge change in the production of patterned fabrics that was manually created at that time.

Creation of Motifs, Design and Effect

In spite of use of fabric texture design, colored yarns of warps and woops and various types and grades of thread can be applied to create motifs on surface of fabric. Various appropriate motifs can be created through knitting process using Jacquard looms. Use of yarns with fancy effects, Aslab (Persian motif), Boucle and a variety of other threads would create special effects on the fabric.

CONCLUSION

According to the results of this study, it was determined that some factors such as texture, color, type and weight have special role in order to present a modern design through combination of motioned factors. The use of simple or complex design with gray tone beside the colored fibers and the use of natural materials with low percentage of synthetic fibers would maximize the softness and elegance of the fabrics and it would be comfortably fit. Therefore, these factors can be considered in the device using low-density thick yarns or high-density delicate yarns.

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