

Pattern Design and Fitness of Business Jacket

Xin Zhang*, Fangfang Cui, Yongmei Deng, Yanbo Ji, Quan Sun

Apparel & Art Design College, Xi'an Polytechnic University, Xi'an 710048, China

Abstract

Modern design of business wear should not only meet the functional requirements, but also meet the fitness and aesthetics requirements. Research done in clothing companies show that unfitness has currently become an obstacle to the development of business wear enterprise. This paper points out the problem and the design needs of an enterprise business jacket. From pattern to design method and ease design as two aspects for further research, it is proposed that based on human characteristics of the business jacket pattern to the design ideas, and through the samples wearing effects, evaluation should be carried out to determine the exact ease and relevant parts that are free of business jacket. This study aims to put forward business jacket pattern designs to provide a new method and for such wear design and distribution of ease to provide a reference basis, which acts as full of theoretical and practical values.

Keywords: Business Wears; Fitness; Pattern Design; Ease Design

1 Introduction

Business wear is the clothing which is designed by the ergonomic and body protection, and emphasizes on protective, safe and healthy work [1]. Through the survey of enterprise, it is put forward that: due to the cost and technical issues, most domestic business wear enterprises do not make cloth to one's own measurements, and instead uses the characteristic dimensions to target groups, leading to the pattern size not consistent with the request, henceforth affecting the accuracy of the pattern of design. In addition, the enterprise is used in pattern to design method defects, regardless of the business wear of aesthetic artistry, and cannot adapt as a business wear pluralistic development. Without the correct understanding, the enterprise of ease design would result, in the design principles of selecting "big" to cause the wear effect to be not beautiful, unfit and as a result, a fabric waste. Therefore, in order to achieve higher fitness of business wear, there still needs to be improvement of the techniques and methods.

In view of the above questions, subject to the use of extensive jacket business wear and the influence of the main factors of the compound, this paper mainly studies business wear pattern to design method and ease design. This study aims to provide technique and method for pattern design and fitness evaluation of business wear, and the fundamental solution to the unfitness of business wear.

*Corresponding author.

Email address: xianzhangxin@sina.com (Xin Zhang).

2 The Pattern Design Based on Human Characteristics

2.1 The Pattern Design Method

It is commonly understood that a key problem of pattern design in business wear enterprises is the mismatch between the design of cloth pattern sizes and the characteristic dimensions of the wearer, causing unfitness of business wear. Currently most business wear enterprises still adopt the plane design method, as the pattern to the original method cannot adapt to the fashionable and aesthetics requirement of modern business wear. In regards to the characteristics of business wear, every type of business wear on design changes to follow certain rules. Whilst it can often in certain “base prototypes” transform, the design work does not need repeatability.

Based on various clothing pattern design methods [2, 3], it is proposed based on the human characteristics of pattern to design method.

This method is mainly uses plane and draping combination of methods. It consists of three steps to use the draping and plane cutting method to design the pattern. First, basic pattern with human characteristic dimensions was obtained by the draping cutting method, and then promoted to the sub-basic pattern which includes segmentation lines, darts and ease complying with the characteristics and requirements of garment style. Finally, the sample pattern can be transformed to the sub-basic pattern by the consideration of the style specifics (such as the collar, sleeve, hem and pocket). Concrete ideas are shown below:

Basic pattern (included human characteristics) → Sub-basic pattern (included segmentation lines, darts and ease) - Sample pattern (transforming: collar, sleeve, hem and pocket, etc.). An example is shown in Fig. 1.

2.2 Design Process

Specific process of pattern design is shown in Fig. 2.

3 Ease Design Experiments

3.1 Samples Preparation

According to the pattern design ideas and steps in Section 2, and to draw the jacket-business

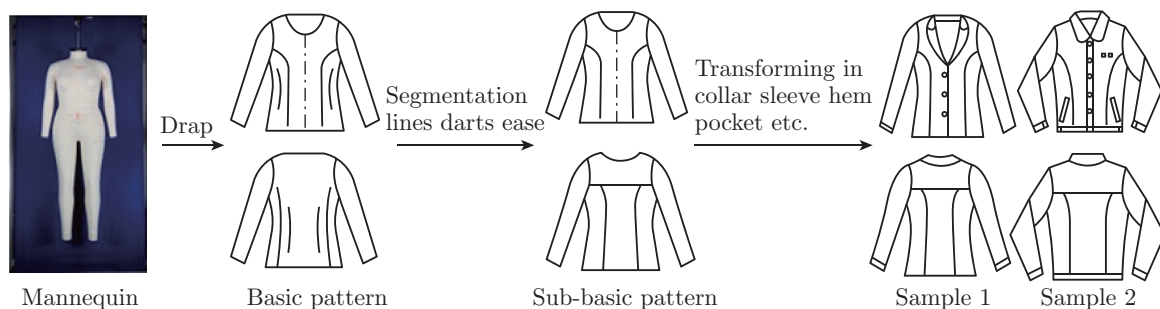


Fig. 1: The pattern design method sample