

ABSTRACT

UTILIZATION OF YARN WASTE IN FASHION PRODUCTS USING WET FELTING TECHNIQUE

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One of the primary challenges facing the fashion industry is the creation of innovative and creative products to remain competitive in the market. This research aims to provide an innovative solution to this problem by utilizing acrylic yarn waste from Kaangge knitting factory as the primary raw material. Kaangge knitting factory generates up to 40 kilograms of waste per week, primarily consisting of yarn. Through a visual material exploration approach, this research focuses on reprocessing yarn waste into exploratory fabric sheets using the wet felting technique, which can be applied to casual women's ready-to-wear clothing. This allows the yarn waste to possess commercial value and aesthetic appeal. The objective of this research is to explore the potential of yarn waste as a raw material for fashion products and contribute to the development of a more sustainable fashion industry. Employing a qualitative methodology, this study draws data from literature reviews, observations, interviews, and fabric sample making experiments. The findings indicate that acrylic yarn waste can be processed into strong and flexible fabric sheets through the wet felting technique. Additionally, the research discovered that the wet felting process can produce a variety of textures and colors on the fabric surface, enabling the creation of unique and appealing designs. This research makes a significant contribution to the development of a more sustainable fashion industry. By utilizing textile waste, this study not only reduces negative environmental impacts but also opens up new business opportunities for creative industries.

Keywords: Waste, Yarn, Felting, Upcycle, Ready to wear