

MINIMALISM AS A CONCEPT FOR TEXTILE FINISHING AND FASHION DESIGN

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ABSTRACT

In textile and fashion industry, novel approaches is demanded to create an interactive relation between them. One of these approaches is applying environmental friendly finishing as well as using this concept in fashion design which a type of bio-mimic or environmental simulation. Minimalism concept has been a growing trend in different fields such as design, art, and fashion, which expresses consumer's needs for effortless functionality that can be compatible with a complex modern lifestyle by using limited materials to create a desired effect. In present research woven and knitted cotton fabrics were biofinished using cellulase enzyme followed by stain release treatment. Further, the effect of biofinishing treatment on some physico-mechanical properties of used cotton fabrics; which have a direct affect on UV-blocking ability; namely fabric width, weight, stiffness, and thickness were evaluated and showed significant enhancement. Additionally, UPF of grey and biofinished fabrics were calculated and showed improvement of their values after enzymatic treatment. Finishing using polysiloxane derivative was achieved and to enhance stain release properties, and showed enhancement in their grade values. As well as, the finished cotton fabrics were applied for producing fashionable designs that inspired from minimalism features, which introduced multiple visual and benefit functional properties.

KEYWORDS: Textile Finishing, Biofinishing, UV Protection, Soil Release, Fashion Design, Minimalism