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Effect of Geometrical Elements of Sine Wave Group Patterns on the Wave Feeling

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Abstract: This study aims to obtain the geometrical conditions of pattern elements of sine wave group patterns needed to give the observer a feeling of the waviness created by the patterns and fundamental guidelines for designing skirts with such patterns. The authors examined the effects of the period, amplitude, phase and grouping of the patterns on the wave feeling using paper skirts with the patterns printed and worn by a whole body mannequin. Female university students evaluated the wave feeling of the patterns using the semantic differential method. The geometrical conditions of different kinds of patterns for skirts were clarified numerically.

Key Words: [Sine wave](#), [Pattern](#), [Element](#), [Wave feeling](#), [Skirt](#)

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