

CORRUGATED BOX PRODUCTION PROCESS OPTIMIZATION USING DIMENSIONAL ANALYSIS AND RESPONSE SURFACE METHODOLOGY

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Abstract

Response surface methodology (RSM) is a statistical method useful in the modeling and analysis of problems in which the response variable receives the influence of several independent variables, in order to determine which are the conditions under which should operate these variables to optimize a corrugated box production process. The purpose of this research is to create response surface models through regression on experimental data which has been reduced using DA to obtain optimal processing conditions. Studies carried out for corrugated sheet box manufacturing industries having man machine system revealed the contribution of many independent parameters on cycle time. The independent parameters include anthropometric data of workers, personal data, machine specification, workplace parameters, product specification, environmental conditions and mechanical properties of corrugated sheet. Their effect on response parameter cycle time is totally unknown. The developed model was simulated and optimized with the aid of MATLAB R2011a and the computed value for cycle time is obtained and compared with experimental value. The results obtained showed that the correlation R, adjusted R² and RMS error were valid.

Index Terms - Response Surface Methodology (RSM), Dimensional Analysis (DA), Independent Variables, Response Variable, Correlations, Root Mean Square Error (RMS) and MATLAB

1. INTRODUCTION

Cardboard packaging is one of the most widely used forms of packaging. The corrugated cardboard is stiff, strong and light in weight material made up of layers of brown craft paper. These brown craft paper rolls are transported to a corrugation machine where this paper gets crimped and glued to form corrugated cardboard called as single face corrugated board and then this single face corrugated board is cut according required dimension on the cutting machine. According to requirement by adding another corrugating medium and a third flat printed liner creates a double wall corrugated board or triple wall corrugated boards on gluing or bonding machine called as 3ply 5ply and 7ply.



Reel Inventory



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WS2Corrugation



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