

# 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  $R^2$  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

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## 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



WS1 Printing



WS2Corrugation



WS3 Gluing



WS4 Creasing



WS5 Creasing

# Corrugated Box Production Process Optimization Ijesat

**Hari Vasudevan,Vijaya Kumar N.  
Kottur,Amool A. Raina**



## **Corrugated Box Production Process Optimization Ijesat:**

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web tomie kawakami better known mononymously as tomie is a character from the japanese horror manga and film series of the same name created by junji ito tomie was introduced in ito s 1987 manga tomie which was published in

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web tarihi uzay vampir yaoi yuri anılar hem iyi hem de kötü olarak lise tecrübelerimi kaplıyor arkadaşlarıyla takılmak ya da sınavlardan kafanı kaldıramamak herkes o zamanlardan bir şeyler hatırlar belli bir lisenin bir sınıfı lise günlerine üzüntüyle bakmalarını sağlayacak bir o

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web 15 temmuz günceli ibitsu ya devam ediyoruz bu seriye benim suşi manga Çeviri yi kurma düşüncelerim varken başlanılmıştı tabi düşünce aşamasında kaldı buradan devam ediyoruz aynı çevirmen ve editorle nea manga Çeviri ile koroshiya 1 ichi the killer a başladık başlar başlamaz da ben ortadan kayboluyorum 1

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web tomie is a manipulative hedonistic and extremely selfish woman seducing men to do her bidding she is one of junji ito s most recurring characters appearing for a grand total of 3 series tomie tomie part 2 and tomie again



**meaning of tomie explained by junji ito r junjiito reddit** - May 06 2022

web dec 21 2021 tomie is a story where people fascinated with the girl end up killing her accelerating her rebirth the proliferation of tomie was created while writing a serial storyline which helped greatly to convey the concept of regeneration

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web apr 27 2018 the deceased is not just any student she s tomie kawakami a popular girl with an almost otherworldly beauty her death was particularly gruesome her body was dismembered and the pieces scattered as the class tries to make sense of the situation they are shocked when a familiar voice calls out to them from the doorway apologizing

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web oct 21 2020 about with countless classics under junji ito s belt tomie stands a cut above the rest link to the discord discord gg spbsbzvlink to patreon

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web feb 7 2011 in a high school classroom students mourn the loss of one of their own tomie kawakami who has been murdered and dismembered shocked by the announcement of her death the class is puzzled by the cruel fate that has befallen someone so dear to them such a radiant and beautiful girl did not deserve such a hideous demise

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web the series focuses on the titular tomie kawakami a beautiful young girl identified by a mole under her left eye who drives her stricken admirers to madness often resulting in her own death however due to her ability of regeneration she comes back

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web tomie o kadar güzeldi ki bayıldım gerçekten tomie ile yalnız kalmak insanı geriyor 2 ciltten oluşan kısa ama etkileyici bir manga Şiddet ve korku mangası olarak geçtiği için 18 yaş altının okuması uygun değildir

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web bir okulda o okulun bir sınıfındaki öğrenciler olabilecek en kötü olayla karşı karşıyaydılar bir öğrencinin ölümü bu her hangi bir öğrencinin ölümü değildi tüm dünyaya güzelliğiyle nam salmış tomie kawakami nin ölümüydü Ölümü insanlara dehşete düşürücü şekilde korkunçtu bedeni parçalanmış ve

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tanıtım bülteninden

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web tomie kawakami in japanese 湯島 is the titular main antagonist of the tomie movie and manga franchise though tomie appears human she has an array of bizarre biological abilities which she uses to her advantage in the live action adaptations of the series tomie is played by a different

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web Özet liseye giden bir genç kız olan tomie kawakami gizemli bir şekilde öldürülmüştür davaya atanan detective harada olayı araştırmaya başlayınca bilgiler edinir Üç yıl önce aynı isimli bir genç kız daha öldürülmüştür soruşturma devam edildik

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web the complete classic horror series now available in a single deluxe volume murdered again and again one girl always comes back for more tomie kawakami is a femme fatale with long black hair and a beauty mark just under her left eye she can seduce nearly any man and drive them to murder as well even though the victim is often tomie herself

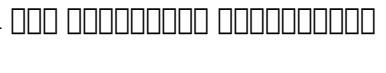
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web these rather disturbing tales tell the story of a high school girl named tomie who can be seen as a living embodiment of lust and all the negative emotions that go along with it such as jealousy tomie is the ultimate self destructive entity yet ironically she survives anything

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web mar 17 2022 tomie s full name is tomie kawakumi she makes repeated appearances throughout the three volumes of junji ito s tomie she is described as a young woman with beautiful hair and having a mole underneath her eye

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