Evaluation of effective parameters on strength of metal specimen adhesion with polymers

Original Research, A1

Zimov F, Polat A, Saha B.


ABSTRACT: A

Key Words: Polymer
Evaluation of mechanical, thermal and electrical properties of graphite base nanocomposites

Original Research, A2

Solomon T, Joeva R, Rodzina S.


A BSTRACT:
Key words: Graphite, Nanocomposites, Mechanical, Thermal
Investigation of Exfoliation and Intercalation in Clay Nanocomposites

Original Research, A3

Ali D.

Abstract:
In this study the effect of filling of clay nanoparticle in the polymer base composite and the intercalation, exfoliation is investigated. It is found that the performance of clay nanocomposites is improved due to the presence of clay nanoparticles. The exfoliation of clay layers occurs when the polymer chains are intercalated between the clay layers. The complete exfoliation of clay layers is crucial for achieving good performance of polymer/clay nanocomposites.

Key words: Exfoliation & Intercalation,

A Ringed Contact Friction and Boundary Lubrication Test instrument design

Original Research, A4

Rahman A. and Memedov B.

Abstract:
A simple, inexpensive, easy to use, and very accurate annular contact friction and boundary lubrication tester is designed. The instrument is well suited for simulating and studying the surface contact phenomena which arise in multiple disc brakes and clutches.
Performance Improvement Priorities: Integrative Model of Organizational Excellence Model and Balanced Scorecard Approach

Original Research, A5

Hoseini Nasab H., Bagheri F., Esfahani M J.

Abstract:

Due to increase in the strategic and quality management programs in organizations, the need for a comprehensive model is observed to identify and prioritize improvement. The present research focuses on the performance improvement priorities by using the EFQM Model and Balanced Scorecard approach in an industrial organization. The study demonstrates the integration of these approaches to identify and prioritize the improvement areas. The results of the study are discussed, and suggestions for managers and researchers are provided.

Keywords: Priorities for Improvement, EFQM Model, Balanced Scorecard, QFD, TOPSIS Method

A Priorities for Improvement, EFQM Model, Balanced Scorecard
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**Abstract:**

In this paper, we concentrate on linear programming problems in which the cost vector, the technological coefficients and ... can be solved by the linear programming methods. Finally, we give an illustrative example and its numerical solutions.

**Keywords:** Linear Programming Problem, Generalized Interval-Valued Trapezoidal Fuzzy Number.
The Measuring Efficiency in Data Envelopment Analysis with Genetic Algorithm

Abstract:

An important objective of Data Envelopment Analysis (DEA) is to evaluate the efficiency of decision making units (DMUs). In the present study, a methodology is developed to measure the efficiency of healthcare services institutes through the DEA approach. The main problem is to determine the most suitable performance benchmark from some DMUs. The genetic algorithm is used to search for the optimal solution of the problem. The Taguchi experimental design is used to calibrate the parameters of the model and its components. The parameters are calibrated by means of the Taguchi experimental design in order to improve their performances.

Keywords:
Data Envelopment analysis, Genetic Algorithm