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

Original Research, A1

Zimov F, Polat A, Saha B.


ABSTRACT:

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


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Original Research, A2

Solomon T, Joeva R, Rodzina S.

Key words: Graphite, Nanocomposites, Mechanical, Thermal

Abstract:

The postulate for lightweight, good performance and high mechanical strength, thermal stable and electrical conductor ... to polymer resins improve the mechanical properties, thermal and electrical conductivity of manufactured composites.
Investigation of Exfoliation and Intercalation in Clay Nanocomposites

Original Research, A3

Ali D.

Abstract:

In this study, the effect of filling clay nanoparticles in a polymer base composite and the intercalation, exfoliation, or both, is investigated. The polymer/clay nanocomposites exhibit enhanced mechanical properties compared to the pure polymer. Complete exfoliation of silicate layers is the fundamental to reaching polymer/clay nanocomposites that perform well.

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 and built. The designer's objective was to achieve a device capable of testing a variety of contact pairs, including multiple disc brakes and clutches. The device is well suited for simulating and studying the surface contact phenomena which arise in multiple disc brakes and clutches.

Key words:
Keywords: Ringed contact, Friction, Boundary Lubrication

Abstract:

Due to increase in the strategic and quality management programs in organizations, the need for a comprehensive approach to improve performance has been emphasized. In this study, performance improvement priorities are identified using an integrative model of Organizational Excellence Model and Balanced Scorecard. The model was developed by using the data obtained from Fuzzy Analytical Hierarchy Process (AHP) method, and priorities for improvement are identified. Finally, suggestions for managers and researchers are discussed.

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

Performance Improvement Priorities : Integrative Model of Organizational Excellence Model and Balanced Scorecard Approach

Original Research, A5

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

A BSTRACT:

A Priorities for Improvement, EFQM Model, Bal...
**A New Method for Solving the Generalized Interval-Valued Fuzzy Numbers Linear Programming Problems**

Mahmoodirad A., Hassasi H., Molla-Alizadeh-Zavardehi S., Esfahani M. J.

**Abstract:** In this paper, we concentrate on linear programming problems in which the cost vector, the technological coefficients and the right-hand side numbers are interval-valued fuzzy numbers. These problems 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 Fuzzy Numbers

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**Ranking Tehran Healthcare Centers based on Service Quality using Fuzzy Data Envelopment Analysis**

Tabatabaei Mehrizi S.M.

**Abstract:** The customer is one of the most effective environmental factors in health services organizations. Experts of management in Tehran healthcare centers were selected. These clinics were then ranked regarding the quality of their services using DEA.
The Measuring Efficiency in Data Envelopment Analysis with Genetic Algorithm

Original Research, A8

Taghaodi R., Esfahani M.J., Molla-Alizadeh-Zavardehi S., Mahmoodi Rad A.

Abstract:

The measuring efficiency in data envelopment analysis with genetic algorithm is presented in this paper. The objective is to evaluate the efficiency of decision making units (DMUs). The DEA models are based on the ratio of weighted inputs over weighted outputs. The parameters are calibrated by means of the Taguchi experimental design in order to improve their performances.

Keywords: Data Envelopment analysis, Genetic Algorithm.