

TABLE OF CONTENTS

Volume 5 Number 1

January 2013

Aging Effect on Characteristics of Oil Impregnated Insulation Paper for Power Transformers

L. S. Nasrat, N. Kassem, N. Shukry.....1

Elimination of Oil Residual inside the Copper Pipe Using Ladder Technique

W. Sriratana, R. Murayama.....8

Study on Thin Layer Drying of *Rosa laevigata* Michx

B. Lin, Y. Wang, Y. Zhou, Z. Zhao.....16

Assessment of Habitats According to Groyne Types (Using Pale Chub)

J. Kang, H. Yeo, C. Kim.....22

NDI of Rail Squats and Estimating Defect Size and Location Using Lock-In Thermography

D. Peng, R. Jones.....29

Liquid Phase Catalytic Oxidation of Aqueous Solutions That Contain Organic Matter in a Trickle-Bed Reactor

C. Uraz, S. Atalay.....39

An Improved Kernel K-Mean Cluster Method and Its Application in Fault Diagnosis of Roller Bearing

L.-L. Jiang, Y.-X. Cao, H.-K. Yin, K.-S. Deng.....44

MHD Stagnation Point Flow and Heat Transfer over a Permeable Surface

S. Chaudhary, P. Kumar.....50

Analyzing Some Behavior of a Beam with Different Crack Positions Transversely inside It

B. Yazdizadeh.....56

Degradation Behaviors of Thai *Bombyx mori* Silk Fibroins Exposure to Protease Enzymes

C. Wongnarat, P. Srihanam.....61

Viscoelastic Effects on Unsteady Two-Dimensional and Mass Transfer of a Viscoelastic Fluid in a Porous Channel with Radiative Heat Transfer

U. J. Das.....67

Study of the Process of Extraction and Refining of Pequi (*Caryocar brasiliense* Camb.) Oil

P. C. Martins, L. O. Ferreira, T. S. Peixoto.....73

Quantifying the Carbon Footprint of Lean Waste

K. D. Balinski, K. Grantham.....80

Experimental Study on the Ultimate Shear Performance of Elastomeric Bearings of Doublefold Elastomeric Layer

H. Yoon, I. J. Kwahk, Y. J. Kim.....92

Disadvantage Pressure Changes on the Decline of Water Quality in Water Distribution Systems

H. Shamsaei, O. Jaafar, N. E. Ahmad Basri.....97

The figure on the front cover is from the article published in Engineering, 2013, Vol. 5, No. 1, pp. 39-43 by Canan Uraz and Süheyda Atalay.