

Table of Contents

Strength and Durability of Recycled Concrete Strengthened with Steel Fibers and Styrene Butadiene Rubber Latex G. Awchat and G. Dhanjode	1
Structural, Morphological and Optical Properties of (Mn, Al) Co-Doped ZnO Thin Films Prepared by Sol-Gel Dip Coating Method H. Aounallah, M. Zaabat, A. Noua and T.D. Ounis	17
A Framework for Bearing Prognostics in Changing Operating Conditions E.W. Gituku, J.K. Kimotho and J.G. Njiri	29
Load Flow Study of Togo and Benin Transmission Power Network by the Newton-Raphson Method M. Mawuena, P. Chetangny, J. Aredjodoun, D. Chamagne, G. Barbier, S. Houndedako and A. Vianou	49
Modelling of Turkey's Energy Consumption Using Artificial Neural Networks N. Şişman, M.A. Sofuoğlu, N. Aras and H. Aras	73
Characterization of Sulfur/Graphitized Mesocarbon Microbeads Composite Cathodes for Li-S Batteries Y.G. Xu, X.Y. Yan, J. Xiang, H.W. Ou and W.Y. Yang	87
Preparation and Photo-Catalytic Performance of ZIF-67@F-Ta₂O₅ Hetero-Structure X.M. Wang, D.Q. Yang, Y. Su, N. Chen, L.L. Guo, Z. Li and H.G. Li	95
Design of a 30 nm Germanium FinFET by Parameter Optimization G. Mogosetso, C. Lebekwe and N.M.J. Ditshego	105
Evaluation of Mechanical Properties in Concrete Structure Reinforced with Carbon Fiber Coating D.F. dos Santos, M.D.R. Tayt-Sohn and R.A. Simão	119
Performance Analysis of Heterogeneous Systems Ieee 802.11 and Ieee 802.16 Using Spectrum Sharing Mechanism R.H. Adekar and A.K. Kureshi	127