Volume 2, Number 2, June 2014

Some Exergetic Measures of a JT8D Turbofan Engine .......................................................... 110
Onder Turan, Hakan Aydn, T. Hikmet Karakoc, and Adnan Midilli

Security Systems for Remote Farm ......................................................................................... 115
Donabel D. Abuan, Alexander C. Abad, Jose B. Lazaro Jr., and Elmer P. Dadios

External Flashover of Generator Circuit Breaker in Coastal Power Plants having Air Insulated Switchyard ... 119
Bishnu Prasanna Nanda and Pramod Kumar Saxena

Devise Simplified Equation to Calculate the Percentage of Heat Loss with Exhaust Gases, and to Calculate the Coefficient of the Overall Efficiency of the Boiler that Burns Heavy Fuel Oil ................................................. 124
Salah Salem Ali

Acute Assessment of Dynamics, Barriers and Resolutions Governing Household Energy Efficiency: Global Review ................................................................................................................................................................ 129
Santosh D Dalvi, Ashok V Bhonsale, and Ravindra M Datar

Optimization of A Small Scale Dual-Axis Solar Tracking System Using Nanowatt Technology ................. 134
Jay Robert B. del Rosario, Reggie C. Gustilo, and Elmer P. Dadios

Real Time Monitoring and Analysis of Tropical Impact on PV Performance Based on LabVIEW Architecture ............................................................................................................................................................................ 138
M. Effendy Yaacob, Hashim Hizam, and M. Amran M. Radzi

Utilization of Vegetable and Fruit Waste for Bio-Energy Generation .............................................. 143
Sneha Chafle, Vinayaka Parmar, and Seemab Biya

Experimental Study of A Solar Assisted Ground Source Heat Pump for Heating ............................................. 146
Zhongchao Zhao, Weixian Feng, Haojun Mi, Hua Cheng, Long Yun, and Xuemei Gong

Improved Performance of Ultra-Fast Carbon Nanotube Film Heaters .................................................. 150
Dawid Janas and Krzysztof K. Koziol

Effects of Quantization on Digital Buck Converter Switch Mode Power Supply ....................................... 154
Mark Lorenze Torregoza, Elmer R. Magsino, and Jessica C. Cabiles-Magsino

Co-Simulation Study of Coordinated Engine Control Focusing on Tracked Vehicle Shift Quality .................. 160
Taotao Wu, Kai Han, Ling Pei, and Changlu Zhao

Thermoelectric Generator Using Local Mineral MnO-Fe₂O₃-SiO₂-BaO-Al₂O₃-Others .................................. 166
Areerat Dawongsa, Kitsana Lamsombat, Charatchai Bunyattarkoon, and Weerasak Somkhunthot

Thermoelectric Module Using Local Minerals p-Type SiO₂-Fe₂O₃-CaO-SO₃-MgO and n-Type Fe₂O₃-SiO₂-Al₂O₃-MgO ................................................................................................................................................................ 171
Weerasak Somkhunthot and Khuanrutai Jaisom
Thermoelectric Module Using Local Minerals p-Type SiO₂-Fe₂O₃-CaO-SO₃-MgO and n-Type MnO-Fe₂O₃-SiO₂-BaO-Al₂O₃

Watcharin Detkunthong, Kittiya Panphum, Wichuda Boonpong, and Weerasak Somkhunthot

Sustainable Management of Small Hydropower for Rural Electrification in Lao PDR by Economic, Social and Environment Blueprint Perspective

Akhomdeth Vongsay and Xayphone Bounsou

The Structure of Common Linear Copositive Lyapunov Functions for Continuous time Switched Positive Linear Systems

Zhu Liqin and Wu Zhaorong

Temperature Compensated AlN Based SAW

Andrew B. Randles, Julius M. Tsai, Piotr Kropelnicki, and Hong Cai

Power Control System Design in Induction Heating with Resonant Voltage Inverter

Mihaela Popescu and Alexandru Bitolean

Function of Shanashir in Hot Humid Climate Case Study: Boushehr

Deljavan Farshi Negar, Kord Jamshidi Mariya, Alimoradi Maryam, and Pourshahid Shima