

CONTENTS

Section A: Marine Engineering, Maritime, and Marine Affair

Stability Investigation Damaged Ships	Rodrigo Pérez Fernández	399
Confined Waters Manoeuvring: Confidence Measurement of Taiwanese Deck Officers	Hua-Zhi Hsu	407
Study of Different Denoising Methods for Underwater Acoustic Signal	V. Vijaya Baskar, V. Rajendran, and E. Logashanmugam	414
Effect of Mortar Coating on Concrete Carbonation	Wen-Hu Tsao, Ming-Te Liang, Jiang-Jhy Chang, and Nai-Ming Huang	420
Shear Strength of Reinforced Concrete Dapped-End Beams with Shear Span-to-Depth Ratios Larger Than Unity	Wen-Yao Lu, Ting-Chou Chen, and Ing-Jaung Lin	431
Influence of Raisin Starter Syrup Concentrations on the Properties of Sourdough and Sourdough Bread	Jean-Yu Hwang and Yung-Shin Shyu	443
Describing Landscape Structure Improvement According to Experimental Results	Fu-Ming Chang and Ning-Chien Tung	451
Composite Coastal Protection Methods Used at Cijin Coast, Taiwan	Hong-Mo Wu, Shao-Gu Kuo, Yen-Ting Lai, Li-An Kuo, Chia-Yan Cheng, Jyh-Cheng Chu, Yang-Yih Chen, and John R. C. Hsu	457
Improving Detection Technique for Flight Recorders of the Distress Airplanes Crashed into Ocean by Integrating Inertial Navigation System into Underwater Locator Beacon	Sheng-Shih Wang, Hsien-Sen Hung, Jyh-Jier Ho, Jie-Xian Lin, and Chi-Hsiao Yeh	467
Analysis of Electromagnetic Force of the Linear Generator in Point Absorber Wave Energy Converters	Zhong-Qiang Zheng, Peng Huang, Da-Xiao Gao, and Zong-Yu Chang	475
The Geometric Algorithm of Inverse and Direct Problems with an Area Solution for the Great Elliptic Ares	Wei-Kuo Tseng, Jiunn-Liang Guo, and Chung-Ping Liu	481
Effects of Generator Parameters and Transformer Disposal on Dynamics of a High-Penetration No-Storage Wind-Diesel System	Chi-Hsiang Lin	491
Coupling VOF/PLIC and Embedding Method for Simulating Wave Breaking on a Sloping Beach	Tai-Wen Hsu, Chih-Min Hsieh, Chin-Yen Tsai, and Shan-Hwei Ou	498
Development and Performance of an Electro-Magnetic Driven Miniature Piston Pump	Han-Chieh Chiu, Chi-Hsiao Yeh, Hung-Wei Yeh, and Jer-Huan Jang	508
Elastohydrodynamic Lubrication of Circular Contacts at Pure Squeeze Motion Involving the Mixture of Two Lubricants	Li-Ming Chua, Yuh-Ping Chang, and Jer-Jia Sheu	516
The New Method to Evaluate the Uplift Capacity of Belled Piles in Sandy Soil	Jaw-Guei Lin, Shih-Yu Hsu, and San-Shyan Lin	523
The Kriging Cloud Computing Framework: Interpolation of Topography by Cloud Computing with the Kriging Algorithm	Cheng-Tsan Lai, Sung-Shan Hsiao, Hui-Ming Fang, and Edward H. Wang	534
Effects of Battery Energy Storage System on the Operating Schedule of a Renewable Energy Based TOU Rate Industrial User under Competitive Environment	Chun-Lung Chen, Yu-Liang Lin, and Wen-Yu Fu	541

Section B: Oceanography, Marine Biology, Fishery Science, and Marine Ecology

Modling of Upper Ocean Heat Budget Variations in Response to the Passage of Super Typhoon Sinlaku (2008) in the Western North Pacific	Zhe-Wen Zheng, Nan-Jung Kuo, Quanan Zheng, and Ganesh Gopalakrishnan	551
Characterization of a Recombinant α -Ribose Isomerase from <i>Geodermatophilus obscurus</i> DSM 43160 and Application of This Enzyme to the Production of α -Ribose from α -Arabinose	Xing-Guang Hung, Ming-Yuan Yu, Yu-Chun Chen, and Tsuei-Yun Fang	558
CPUE Standardization and Catch Estimate of Blue Shark by Taiwanese Large-Scale Tuna Longline Fishery in the North Pacific Ocean	Wen-Pei Tsai, Chi-Lu Sun, Kwang-Ming Liu, Shyh-Bin Wang, and Nancy C. H. Lo	567
Unraveling the Formation of Continental Crust: a Review and Outlook	Eason Hong and Wei-Ting Kao	575