

Table of Contents

Preface

Chapter 1: Research and Design of Machine Parts

Development of a 1-DOF Compliant Mechanism to Support Rotation P.K. Nguyen, H.N. Le and M.T. Pham	3
Aerodynamic Analysis of Wing-in-Ground (WIG) Effect Vehicle: Wing Profile and Orientation Z. Mohid, K. Kamdani, M.R. Ibrahim, M. Yaakob, F. Fazidi, R. Abidin, T. Ahmad, S.A. Che Ghani and D.N. Daing Idris	9
Design and Simulation of a Low-Cost Frictionless Linear Motor H.N. Le, P.K. Nguyen and M.T. Pham	17
Analysis of Ship Structure with GFRP Lamination Design Subjected to Underwater Shock Loading C.Y. Hsu, C.C. Chiang, G.M. Luo, Y.H. Chen and F.C. Chu	23

Chapter 2: Engineering Management

Just-in-Case Inventory Management under Partial Supply Disruptions T. Karot and C. Pornsing	33
Multi-Objective Optimization of Techno-Economic Feasibility of Heat Pipe Heat Exchanger (HPHE) for Air Conditioning Systems M. Yunus, N. Putra, I.I. Hakim, F. Yulia and N. Nasruddin	39
Automobile's Exhaust Conversion into Energy and into Cool Air to be Utilized as an Alternative Source of Energy at Home and for Car Air-Conditioning J.C.P. Bajaro and R.G. Tayactac	47