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Nota di contenuto	The Proceedings of the International Conference on Process Engineering and Advanced Materials 2012 (ICPEAM 2012); Preface, Committees and Sponsors; Table of Contents; Chapter 1: Advanced Materials Development; Effect of Magnesium Coating Prior to Lithium Loading over SBA-15 for Stabilization of its Mesophase; Incorporation of Pd Nanoparticles on Rod and Necklace-Like SBA-15 Supports Materials; A Review on the Viscous and Thermal Transport Properties of Nanofluids; The Synergistic Effect of Thiourea and Surfactants on Corrosion Inhibition of Stainless Steel-316 in Hydrochloric Acid Optimized TiO ₂ Nanocrystallites Aggregates for Enhanced Efficiency in Dye Solar Cells Solubility Parameters Based on Refractive Index Data of Ionic Liquid; Effect of Aluminium Sol on Silica Nanoparticles Texture and Properties; Chapter 2: Bioprocess and Biotechnology; Bio-Oil Derived from Palm Kernel Shell in Fluidized Bed Reactor: Effect of Particle Size; In Situ Methanolysis of Jatropha curcas Seeds in Soxhlet Extractor; Ethanol Production from Hydrothermal Pretreated Empty Fruit Bunches Comparative Study on Two-Step Fatty Acid Methyl Ester (FAME)

Production from High FFA Crude Palm Oil Using Microwave Technique and Conventional TechniquePreliminary Study of Rambutan (*Nephelium lappaceum*) Seed as Potential Biocoagulant for Turbidity Removal; Effect of Nanonization on Physicochemical Properties of *Centella asiatica* Powders; Chapter 3: Environmental Engineering; Carbon Dioxide Retention on Bentonite Clay Adsorbents Modified by Mono-, Di- and Triethanolamine Compounds; Leachability of Solidified Petroleum Sludge; Physical Absorption of CO₂ Capture: A Review Solubility of Carbon Dioxide in Aqueous Solutions of Piperazine (PZ) at Elevated PressuresVisible Light Photodegradation of Azo Dye by Cu/TiO₂; Photocatalytic Degradation of Diisopropanolamine in Heterogeneous Photo-Fenton System; UV/H₂O₂ Process for Removal of Total Organic Carbon from Refinery Effluent: Screening of Influence Factors Using Response Surface Methodology; Chapter 4: Process Systems Engineering; Modeling the Effect of Temperature-Induced Surface Tension Gradient in Coating Processes; Effect of Bulk Temperature and Heating Regime on Crude Oil Fouling: An Analysis A Comparison of Co-Current and Counter-Current Modes of Operation in Urea Prilling TowerDetection and Correction of Gain Mismatches of Wood-Berry Column Using Linear Residual-Input Ratio; A Taguchi-SQP Approach for Minimizing Energy per Unit Diesel Production at Crude Distillation Unit; Resilience Analysis of a Pipe Segment System Carrying Superheated Steam; Modeling of Gas Holdup and Pressure Drop Using ANN for Gas-Non-Newtonian Liquid Flow in Vertical Pipe; Application of Response Surface Methodology to Investigate CO₂ Absorption Column Temperature Rise Simulation of Hydrodynamics and Reaction Behavior in an Industrial RFCC Riser

Sommario/riassunto

Collection of selected, peer reviewed papers from the International Conference on Process Engineering and Advanced Materials 2012 (ICPEAM2012), June 12-14, 2012, Kuala Lumpur, Malaysia. The 39 papers are grouped as follows: Chapter 1: Advanced Materials Development, Chapter 2: Bioprocess and Biotechnology, Chapter 3: Environmental Engineering, Chapter 4: Process Systems Engineering
