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Titolo	Diffusion in solids and liquids VI : selected, peer reviewed papers from the 6th International Conference on Diffusion in Solids and Liquids : mass transfer, heat transfer, microstructure & properties, nanodiffusion and nanostructured materials : DSL-2010, 5-7 July 2010, Paris, France / / edited by Andreas Ochsner, Graeme E. Murch, Joao M.P.Q. Delgado
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Nota di contenuto	Diffusion in Solids and Liquids VI; Preface and Organizing Committees; Table of Contents; Effect of Catalyst Diffusion Coefficient on Ethylbenzene Dehydrogenation; Investigation of the Effect of Diffusion Process in the Catalyst Pellet on Overall Reaction Rate of Dehydrogenation of Diethylbenzne to Divinylbenzne; Diffusion Layers with Ti and Ti+Al Formed on 316L Austenitic Steel by a Pack Cementation Procedure; Influence of Important Nanoemulsions pH on Performance of Nanostructures Catalysts for H2 Production in Syngas Reactions; Cosmic Censorship!: Thermal Transport in a 'Naked' Black Hole Assessment of Thermal Non-Equilibrium Condition on Heat Transfer through a Channel Lined with Porous Media - Constant Wall TemperatureComputational Algorithms for Topological Cycle Indices of Tert-Butyl Alcohol by Computational Science; Comparison of the

Breakthrough Curves Obtained by ASTM D2007-03 Annex 1 and on a Bench Unit for the Selection of Adsorbents for the Removal of Nitrogen and Sulfur Contaminants from Fuels; Application of Thermo-Mechanical Process to Achieve Nanostructure in 301 Austenitic Stainless Steels Phase Transformations on ASTM a 744 Gr. CN3MN Superaustenitic Stainless Steel after Heat TreatmentCalculation of the Diffusion Coefficient of Uranium in Compacted Clay: Effect of the Temperature; Surface Characterization of a Nitrided Low Alloy Steel; Formation of Zirconia and Titania Nanotubes in Fluorine Contained Glycerol Electrochemical Bath; Grain Boundary Parameters in Sandstone and Limestone; Electrochemical Mass Transfer Measurements of CO2 in MDEA Solutions; Simulation of VOCs Recovery Process by Absorption; The Effect of Stabiliser's Molarity to the Growth of ZnO Nanorods Aligned Growth of Zinc Oxide Nanorods on Catalyst-Seeded Si Substrate by Aqueous-Solution Immersion MethodMicrostructure-Toughness Relationship in AISI4340 Steel; Studies of Ionic Conductivity and Dielectric Behavior in Polyacrylonitrile Based Solid Polymer Electrolytes; Hydrodynamic Simulation of Drift Mobility in N-Hg0.8Cd0.2Te; Composition Dependent Diffusivities in Multi-Component Systems; In Situ Simulation by RHEED and Photoemission of GaAs (001) 2(2x4) Reconstructed Surface; Determination of PBP by Using a Nano SiO2/GC Modified Electrode
Molecular Dynamics Simulation of Solidification of Ag-x%Au NanoalloyDiffusion of Hydrogen in Amorphous Ni-Zr Alloys; Effect of the Latent Heat on Wax Deposit in Pipelines; Polyol-Mediated Synthesis of TiO2 Nanoparticles; Study of Semisolid and ECAP Processes on Al-Fe-Si Alloy - Microstructure and Kinetic Grain Growth; Phase and Amplitude Control of Optical Properties of Quantum Dot Molecules; Heat Transfer in Nanocomposites with Monte-Carlo Simulations; The Influence of Rubber Blend Aging and Sample Homogeneity on Heat Transport Phenomena
Experimental and Theoretical Research of the Shell Side Heat Transfer Coefficient and Pressure Drop in a Plastic Shell and Tube Heat Exchanger

Sommario/riassunto

The goal of this special collection of peer-reviewed papers was to provide an unique opportunity to exchange information, to present the latest results and to review relevant issues in contemporary diffusion research. The result is a work which will provide valuable insights into this subject. Review from Book News Inc.: This two volume set representing the proceedings of the Sixth International Conference on Diffusion in Solids and Liquids, held in July 2010 in Paris, France, showcases refereed papers on a variety of subjects in research and application of diffusion principles. Articles addre