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Nota di contenuto	Defects and Diffusion in Ceramics XII; Table of Contents; Studies of the EPR Parameters and Local Structure of Co <sup>2+</sup> in ZnO; Structural and Electrical Changes in BiMnVOX Oxide-Ion Conductor; Effect of Film Thickness on Some Optical Properties of Sprayed Pyrolysis Cobalt Oxide Thin Films; A Novel Experimental Approach to Compatible Carbon Nanofiber Diffusion around Circular Carbon Micro-Post Surfaces; Structural Rigidity, Percolation and Transition-Temperature Study of the Ge <sub>19</sub> Se <sub>81-x</sub> Sb <sub>x</sub> System; Physical Analysis of Structural Transformation in Ge-Incorporated a-Sb <sub>x</sub> Se <sub>100-x</sub> System Study of the Glass Transition Temperature of (Se <sub>100-x</sub> Bi <sub>x</sub> ) <sub>90</sub> Te <sub>10</sub> (x = 0, 0.5, 1, 1.5, 2, 2.5, 3) Alloys A Boost-Up Method of MEMS-Bulk-Micromachining towards C-MEMS Fabrication for Sensing and Manipulating Bioparticles; Electrical and Dielectric Properties of Te <sub>15</sub> (Se <sub>100-x</sub> Bi <sub>x</sub> ) <sub>85</sub> Amorphous Glassy Alloys; Low-Power Operation of Pt/Porous Si Schottky-Diode Gas-Sensor through a Reduction in its Breakdown Voltage; Surface Composition Transformation of Thin Film Based on Al Grown by CBE on the (001) GaAs Surface Due to Laser Assistance

Characterization and Properties of Iron/Silica-Sand-Nanoparticle Composites Al-Film/Si-Substrate System Nanoscratching Response Based upon Molecular Dynamics Simulation in NEMS; Probing the Activation Migration Enthalpies of Dislocations in 2024 Aircraft Material Using Nuclear and Electrical Techniques; A Numerical Simulation Approach to Convection, Buoyancy Effect, Microfiltration and Flow Analysis as an Influential Lead for Designing and Dimensioning in MEMS

Prediction of Transient Temperature Distribution, HAZ Width and Microstructural Analysis of Submerged Arc-Welded Structural Steel Plates Evaluation of the Effect of Catalyst Pore-Size Distribution on the Effectiveness Factor in Ethylbenzene Dehydrogenation by Orthogonal Collocation; Abstracts; Keywords Index; Authors Index

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Sommario/riassunto

This twelfth volume in the series includes 589 abstracts of ceramics research papers, together with original papers on other major material groups, and theory: Studies of the EPR Parameters and Local Structure of  $\text{Co}^{2+}$  in ZnO, Structural and Electrical Changes in BiMnVOX Oxide-Ion Conductor, Effect of Film Thickness on Some Optical Properties of Sprayed Pyrolysis Cobalt Oxide Thin Films, A Novel Experimental Approach to Compatible Carbon Nanofiber Diffusion around Circular Carbon Micro-Post Surfaces, Structural Rigidity, Percolation and Transition-Temperature Study of the  $\text{Ge}_{19}\text{Se}_{81-x}\text{Sb}_x$  System, P

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