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Contenido: Structure of Dislocations and Mechanical Properties of B2 Alloys -- Exploring the Synthesis Parameters and Spark Plasma Sintering of Tantalum Carbide Powders Prepared by Solvothermal Synthesis -- Thermal Behavior of Celsian Ceramics Synthesized from Coal Fly Ash -- Surface Study of Vitreous Carbon Obtained from Glassy Carbon Powder -- Development of Silicon Carbide Substrates for Aerospace Applications -- Synthesis and Characterization of Glass and Glass-Ceramic Materials of the System SiO₂-Fe₂O₃-BaO-Al₂O₃ O.I. -- Effect of Milling Time on the Physical and Mechanical Properties of Celsian-Mullite Composites Synthesized from Coal Fly Ash -- Physical, Petrographic, and Mineralogical Properties of Limestone Rocks from the Peninsula of Yucatan -- Effect of Gradual Substitution of CaO by SrO in Glass-Ceramic Materials of the System SiO₂ -- Al₂O₃ -- CaF₂ -- RO (R = Ca, Mg, Sr) -- Distribution of Additives in Single-Modified TiO₂ -- Biocorrosion of

AISI 4340 Steel -- Study of the Macrosegregation of Silicon in Steels for Electrical Applications -- Effect of Microalloying Elements (B, Nb, V and Ti) on the Strain Hardening Behavior of High-Manganese TWIP Steels. -- Mechanical properties and microstructure of low carbon ultra-high strength steels (UHSS) microalloyed with boron -- Effect of Hydrogen on Mechanical Properties of Aluminum AA 6061 Alloy Hardened by Precipitation -- Numerical Processing of Cooling Curves to Obtain Growth Parameters During Eutectic Solidification -- Sheet moulding compounds with improved mechanical properties -- Effects of Al₃Ti and (Al, Ni)₃Ti Addition on the Sintering of TiB₂ -- Effect of the linear velocity during the melt spinning process on shape memory transformation of Ni-Ti ribbons -- The effect of rapid solidification and grain size on the transformation temperatures of Ni-44,8 wt%Ti melt spun alloy (continued) Rotating Bending Fatigue Endurance and Effect of Controlled Corrosion on the AISI-SAE 6063-T5 Aluminum Alloy. -- Rheology behavior of lubricants and its effect on the quality surface of aluminum and copper cold-drawn wires -- Steel-Magnesium Laminated Composites by Infiltration -- Application of the intra-particle diffusion model for activated carbon fibers in an aqueous medium -- Experimental Study on Mixing in Gas-Stirred Ladles with and without the Slag Phase through a Water Physical Model -- Particle Swarm Optimization for Milling Titanium Alloy -- Multi-Objective Optimization of Corrosion Rate Parameters in Refining Process Using Particle Swarm Optimization. -- Molecular perspective of MoS₂/Co unsupported catalyst using computer assisted TEM simulations -- Effect of Heat Treatments on the Microstructure and Properties of Al/SiCp Composites Prepared by Non-Assisted Infiltration -- The Influence of Thermal Annealing on Microstructure and Mechanical Properties in High Performance Liquid Crystal Copolyesters -- Preparation of amorphous aluminium ammonium phosphates -- Effect of manganese on the thermostability and reducibility of cobalt nanomaterials

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