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- World Trends in Ceramic Tile Production
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- Thermal Diffusivity Behavior of a Refractory Castable Matrix

 The most distinctive aspect of castable refractories is their dynamic microstructure behavior upon first heating under service conditions.

 João Baptista Baldo, Wilson Nunes dos Santos, Rinaldo Gregorio Jr. and Roy Taylor
- Inexpensive Technology for Continuous HTS Round Wire

 Ceramics—silicone processing technology is inexpensive, workable and versatile, and it overcomes all prior problems of producing unusually usable, durable and flexible round wire and other high-temperature superconducting materials with required electrical and mechanical properties.

 Anatoly Rokhvarger, Lubov Chigirinsky and Mikhail Topchiashvili
- Stability of Particulate Dispersoid Suspensions in Aluminum and
 Magnesium Melts
 The stable dispersion of ceramic particles into a molten aluminum and magnesium alloy slurry is dynamically influenced by the chemical composition of the interface.

 V.M. Kevorkijan
- Suspension Processing, Microstructure and Mechanical Properties of
 Alumina-Platelet-Reinforced 3Y-TZP, Part 2

 3Y-TZP-containing Al₂O₃ platelet reinforcements were fabricated by suspension processing and pressureless sintering to >95% of theoretical density. The effect of platelet size on the green and fired microstructures was determined. There was improvement in mechanical properties using smaller platelets, but loss in fracture strength using larger platelets.

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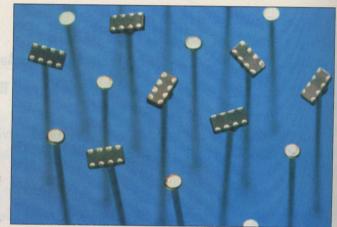
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