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Microstructure Maps for Unidirectional Freezing of Particle SuspensionsInteractions of Si3N4-Based Ceramics in Water Environment Under Sub-Critical Conditions; Smart Recycling of Composite Materials; High Thermal Conductivity and High Strength Sintered Reaction - Bonded Silicon Nitride Ceramics Fabricated by Using Low Grade Si Powder; Electrical Conductive CNT-Dispersed Si3N4 Ceramics with Double Percolation Structure; Fabrication of CNT-Dispersed Si3N4 Ceramics by Mechanical Dry Mixing Technique; Joining of Silicon Nitride Long Pipe by Local Heating

Joining of Silicon Nitride with Pyrex® Glass by Microwave Local Heating Mechanical Properties of Chemical Bonded Phosphate Ceramics with Fly Ash as Filler; Ceramics Micro Processing of Photonic Crystals: Geometrical Patterning of Tiania Dispersed Polymer for Terahertz Wave Control; Intergranular Properties and Structural Fractal Analysis of BaTiO3-Ceramics Doped by Rare Earth Additives; Development of Numerical Method for Evaluating Microstructural Fracture in Smart Materials; Fabrication of Ceramic Dental Crowns by Using Stereolithography and Powder Sintering Process

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| Sommario/riassunto | This book is a collection of papers from The American Ceramic Society's 35th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 23-28, 2011. This issue includes papers presented in the 5th International Symposium on Advanced Processing and Manufacturing Technologies for Structural and Multifunctional Materials and Systems on topics such as Design-Oriented Manufacturing and Novel Forming and Sintering. Papers from a special session held in honor of Katsutoshi Komeya of Yokohama National University, Japan are also included. |