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Nota di contenuto	Advances in Ceramic Matrix Composites X; Contents; Preface; Ceramic Fibers; Sol-Gel Processing of Alumina-Zirconia Fibers; Oxide and Non-Oxide Ceramics and Composites; Fabrication of Transparent Polycrystalline Silicon Nitride Ceramic; A Model Cerium Oxide Matrix Composite Reinforced with a Homogeneous Dispersion of Silver Particulate-Prepared Using the Glycine-Nitrate Process; Electrical and Mechanical Properties of K, Ca Ionic-Conductive Silicon Nitride Ceramics; Electrical Resistance Measurements of Conductive Oxide Dispersed Glass Composites for Self Diagnosis; Geopolymers A Conceptual Model for Solid-Gel Transformations in Partially Reacted Geopolymeric SystemsMicrostructural Characterization of Metakaolin-Based Geopolymers; The Effect of Heat on Geopolymers Made Using Fly Ash and Metakaolinite; Comparison of Naturally and Synthetically-Derived, Potassium-Based Geopolymers; Chemically Bonded Phosphate Ceramics-A Novel Class of Geopolymers; Mechanical Properties and Micromechanical Modeling; Fracture and Crack Growth in Ceramic

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Sommario/riassunto	Ceramic matrix composites are likely candidates for high-temperature structural applications in industries such as aerospace, utilities, and transportation. This volume includes papers on advances in basic science and technology of ceramic matrix composites and how these advances can be used to address technological issues faced by industry.