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Corrosion of Silicon Nitride Materials in Acidic and Basic Solutions and under Hydrothermal conditionsApplications; Development of High-Temperature Heat Exchangers Using SiC Microchannels; Characterization of Ceramic Components Exposed in Industrial Gas Turbines; Gelcasting SiAION Radomes; Effect of Long-Term Oil Immersion Test on Mechanical Reliability of Candidate Silicon Nitride Ceramics for Diesel Engine Applications; Index

Sommario/riassunto

This volume focuses on recent scientific and technological developments in silicon-based (i.e., silicon nitride, SiAlONs, silicon carbide, silicon oxynitride) structural ceramics. Authors from academia and industry assess the current state of the art in slilicon-based structual ceramics. Industrial case studies are advocated to highlight the development and application of these materials in real engineering environments.