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NANOSTRUCTURED COATINGS; Cerium Oxide Thin Films via Ion Assisted Electron Beam Deposition; Formation of Nanocrystalline Diamond Thin Films on Ti₃SiC₂ by Hot Filament Chemical Vapor Deposition; THERMAL BARRIER COATING PROCESSING, DEVELOPMENT AND MODELING; Process and Equipment for Advanced Thermal Barrier Coatings; Corrosion Resistant Thermal Barrier Coating Materials for Industrial Gas Turbine Applications; Damage Prediction of Thermal Barrier Coating by Growth of TGO Layer
Young's Modulus and Thermal Conductivity of Nanoporous YSZ Coatings Fabricated by EB-PVD Influence of Porosity on Thermal Conductivity and Sintering in Suspension Plasma Sprayed Thermal Barrier Coatings; Numerical Investigation of Impact and Solidification of YSZ Droplets Plasma-Sprayed onto a Substrate: Effect of Thermal Properties and Roughness; Author Index

Sommario/riassunto

This volume provides a one-stop resource, compiling current research on ceramic coatings and interfaces. It is a collection of papers from The American Ceramic Society's 32nd International Conference on Advanced Ceramics and Composites, January 27-February 1, 2008. Papers include developments and advances in ceramic coatings for structural, environmental, and functional applications. Articles are logically organized to provide insight into various aspects of ceramic coatings and interfaces. This is a valuable, up-to-date resource for researchers in industry, government, or academia who work in
