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Titolo	Advanced ceramic coatings and interfaces IV [[electronic resource]] : a collection of papers presented at the 33rd International Conference on Advanced Ceramics and Composites, January 18-23, 2009, Daytona Beach, Florida / / edited by Dongming Zhu, Hua-Tay Lin
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Nota di contenuto	Advanced Ceramic Coatings and Interfaces IV; Contents; Preface; Introduction; Oxides for High Temperature Vibration Damping of Turbine Coatings; Enhancing the Passive Damping of Plasma Sprayed Ceramic Coatings; Magnesia and Yttria Based Coatings for Direct-Copper-Bonding of Silicon Nitride Ceramics; Application of Semiconductor Ceramic Glazes to High-Voltage Ceramic Insulators; Ceramics for Abradable Shroud Seal Applications; Wear Resistance of Hard Materials in Drilling Applications; Thermal Barrier Coatings Deposited by the Faradayic EPD Process The Influence of Thickness on the Properties of Air Plasma Sprayed Ceramic Blend at Room TemperatureElectrical and Dielectric Properties of Thermally Grown Oxide (TGO) on Fecralloy Substrate Studied by Impedance Spectroscopy; Measurement of Thermal Barrier Coating

	Conductivity by Thermal Imaging Method; Thermal Residual Stress in Environmental Barrier Coated Silicon Nitride-Modeled; Fracture Mechanical Modelling of a Plasma Sprayed TBC System; Author Index
Sommario/riassunto	This volume is a useful resource for understanding the most valuable aspects of advanced ceramic coatings and interfaces. Containing twelve contributed papers from the symposium, topics include vibration damping coatings, thermal and environmental barrier coating processing, testing and life modeling, non-destructive evaluation, multifunctional coatings and interfaces, highlighting the state-of-the-art ceramic coatings technologies for various critical engineering applications.