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Nota di contenuto	Advanced Ceramic Coatings and Interfaces V; Contents; Preface; Introduction; THERMAL AND ENVIRONMENTAL BARRIER COATINGS; Kinetics and Mechanism of Oxidation of the Reinforced Carbon/Carbon on the Space Shuttle Orbiter; Thermomechanical Fatigue Life of TBCS- Experimental and Modeling Aspects; Oxidation-Induced Stresses in Thermal Barrier Coating Systems; Strength Degrading Mechanisms in Plasma Spray Coated Silicon Nitride; Effect of Microstructure Change of APS-TBCS on the Interfacial Mechanical Property under Shear Loading Effect of Thermal Gradient on the Through-Thickness Thermal Conductivity of Plasma-Sprayed TBCS Thermal Property Measurement for Thermal Barrier Coatings by Thermal Imaging Method; Research on MoSi ₂ -Based Oxidation Protective Coating for SiC-Coated

Carbon/Carbon Composites Prepared by Supersonic Plasma Spraying; ADVANCED COATINGS FOR WEAR AND CORROSION APPLICATIONS; LAFAD-Assisted Plasma Surface Engineering Processes for Wear and Corrosion Protection: A Review; Aluminum Oxide and Silicon Nitride Thin Films as Anti-Corrosion Layers
Plasma Nitrided Austenitic Stainless Steel for Biomedical Applications
A Report on the Microstructure of As-Fabricated, Heat Treated and Irradiated ZrC Coated Surrogate TRISO Particles; ADVANCED COATING PROCESSING; Introduction to High Velocity Suspension Flame Spraying (HVSFS); Electrophoretic Deposition of Oxide Powder by Using Non-Flammable Organic Solvent; Use of Glass-Ceramic Coatings Containing Water-Reactive Components as a Bonding Layer between Concrete and Metal; Author Index

Sommario/riassunto

The present volume contains sixteen contributed papers from the symposium, with topics including advanced coating processing, advanced coating for wear, corrosion, and oxidation resistance, and thermal and mechanical properties, highlighting the state-of-the-art ceramic coatings technologies for various critical engineering applications.
