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Nota di contenuto	Advanced Inorganic Fibrous Composites V; Committee; Preface; Table of Contents; Session 1 - Production and Properties of Reinforcements and Matrix Materials; Modern Aspects of Ceramic Fiber Development ; A New Generation of Boron-Based Ceramic Fibers: Design, Processing and Properties of SilicoBoron CarboNitride (SiBCN) Fibers from Boron-Modified Polyvinylsilazanes ; Advances in SiC Fibers for High Temperature Applications ; Synthesis of SiCN-Precursors for Fibres and Matrices; Vibration Damping Properties of Nanotube-Reinforced Materials ; Session 2 - Interfaces / Interphase Micromechanics-Based Evaluation of Interfaces in Ceramic Matrix Composites The Influence of SiC Nano-Precipitates on the Interface Structure in C/C-SiC Composites ; Improved Oxide-Based Interfacial Coatings for the Next Generation of CMC's ; Session 3 - Processing and Fabrication of MMCs, CMCs and C/C Composites; Thixoforged Al-Si Metal Matrix Composites Made from Thermally Sprayed Ceramic Fiber

Laminates; Processing of Non-Oxide Ceramic Matrix Composites: An Overview; CMC-Processing from Powders by Hot-Pressing Manufacturing and Properties of CMCs Containing Ti Filler with Improved Intra-Matrix Bond Impregnation of 3D Woven Carbon Fibre Preforms by Electrophoretic Deposition of Single and Mix of Non Oxide Ceramic Nanoscale Powders, and Densification of the Composite Material; Modelling of the CVI Processes; Chemical Vapor Infiltration of Carbon Fiber Felts from Methane: Influence of Surface Area / Volume Ratios; Laser CVD of Filaments; Session 4 - Property and Behaviour Characterization; Advanced Design Concepts and Modeling of Composite Materials in Emerging Applications; CMC and C/C-SiC-Fabrication
Static Fatigue of a 2.5D SiC/[Si-B-C] Composite at Intermediate Temperature under Air Mechanical Behaviour Al-Matrix Composite Wires in Double Composite Structures; Session 5 - Applications; Composites in Aerospace Industry; Lightweight Engineering with Advanced Composite Materials - Ceramic and Metal Matrix Composites; Advanced Composite Materials for Current and Future Propulsion and Industrial Applications ; Keywords Index; Authors Index

Sommario/riassunto

This collection presents 23 papers. Altogether, the collection offers up-to-date information on Advanced Inorganic Fibrous Composites.
