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Nota di contenuto	Proceedings of the International Forum on Structural Ceramics Joining; Table of Contents; Model Systems; Ultrahigh Vacuum Diffusion Banding of Metals to Ceramics; TEM Studies of Pd/Al ₂ O ₃ Interfaces; Spinel Formation in the Nickel-Alumina System; Crystallographic Study of Ceramic-Metal Joints; Material Transport Mechanisms During the Diffusion Bonding of Niobium to Al ₂ O ₃ ; Intrusion Bonding of Nickel and Zirconia; Alumina-Copper Diffusion Bonding; Bonding and Fracture of Titanium-Containing Braze Alloys to Aluminum; Interfacial Reactions; Brazing Ceramics with Alloys Containing Titanium Brazing Alloy Design for Metal/Ceramic Joints Joining Nitride Ceramics; Wetting of Silicon Nitride with Selected Metals and Alloys; An Investigation of Interfacial Microstructure and Bonding in Brazed Silicon Nitride-Silicon Nitride and Silicon Nitride-Ne-Cr-Fe Alloy 600 Joints;

Interfacial Reactions in Metal-Si₃N₄ Bonding; Interface Mixing Between Metals and Ceramics: Classification, Thermochemistry, and Processing; Morphological Development of Zirconia-Metal Interface; Interfacial Reaction Between Zirconia and Carbon Steel; Wetting of Silicon Carbide Surfaces by MgO-Li₂O-Al₂O₃-SiO₂ Glasses
Joining MethodsJoining Between Zirconias Using Platinum Metal; Joining Silicon Carbide Using Nickel- Active Metal (or Hydride) Powder Mixtures; Silicon Nitride Joining with Glasses in the System CaO-SiO₂; Strength and Fracture; The Strength of Ceramics Bonded With Metals; Modeling of Ceramic to Metal Brazed Joints; Boundary Effects on the Interfacial Transient Thermal Fracture of Ceramic-To-Metal Bonds; Mechanical Behavior of Brazed Silicon Nitride; Comparison of Strengths of Active Metal Brazements in Alumina and SiC Whisker- Reinforced Alumina
Mechanical Behavior of Ceramic-Metal Braze JointsUltrasonic Characterization of Ceramic Joints; Strength of Silicon Nitride-Silicon Nitride Joints Bonded With Oxynitride Glass; Effect of Testing Atmosphere on Mechanical Properties of Ceramic/Metal Joints; Effect of Surface Grinding Conditions on Strength of Alumina/Niobium Joint; Author Index; Subject Index

Sommario/riassunto

This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

2. Record Nr.	UNISALENTO991000123499707536
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