Record Nr. UNINA9910144829703321 Proceedings of the International Forum on Structural Ceramics Joining: **Titolo** a collection of papers presented at the International Forum on Structural Ceramics Joining, April 26-30, 1987, Pittsburgh, PA // symposium chairs, Ronald E. Loehman, Sylvia M. Johnson, Arthur J. Moorhead; sponsored by the Engineering Ceramics Division, the American Ceramic Society, Inc. Westerville, Ohio: .: The American Ceramic Society, Inc., . 1989 Pubbl/distr/stampa ©1989 **ISBN** 1-282-31481-5 9786612314810 0-470-31256-4 0-470-31547-4 Descrizione fisica 1 online resource (458 p.) Ceramic Engineering and Science Proceedings Collana 666 Disciplina Soggetti Ceramic to metal bonding Ceramics - Surfaces Metals - Surfaces Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "ISSN 0196-6219." Nota di bibliografia Includes bibliographical references and indexes. 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/Al2O3 Interfaces; Spinel Formation in the Nickel-Alumina System: Crystallographic Study of Ceramic-Metal Joints; Material Transport Mechanisms During the Diffusion Bonding of Niobium to Al2O3; 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

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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.