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Nota di contenuto	Testing Adhesive Joints; Contents; About the Editors; List of Contributors; 1 Manufacture of Quality Specimens; 1.1 Preparing Bulk Specimens by Hydrostatic Pressure; 1.1.1 Introduction; 1.1.2 Principle;

1.1.3 Metallic Mold; 1.1.4 Silicone Frame; 1.1.5 Adhesive Application; 1.1.6 Cure; 1.1.7 Specimen Machining; 1.1.8 Results; 1.2 Preparing Bulk Specimens by Injection; 1.2.1 Introduction; 1.2.2 Mold; 1.2.3 Centrifuge; 1.2.4 Cure; 1.2.5 Final Specimen Preparation and Testing; 1.3 Preparing Bulk Specimens by Pouring; 1.3.1 Introduction; 1.3.2 Nature of Adhesives Supplied; 1.3.3 Mixing
1.3.4 Pouring1.3.5 Effect of Size; 1.3.6 Specimen Production; 1.4 Preparing Lap Joints with Flat Adherends; 1.4.1 Introduction; 1.4.2 Mold; 1.4.3 Substrate Preparation and Mounting; 1.4.4 Adhesive Application and Assembly; 1.4.5 Cure; 1.4.6 Specimen Cleaning; 1.5 SimpleMethods for the Preparation of Single Lap Joints Specimens; 1.5.1 Introduction; 1.5.2 Single Lap Joint (SLJ) Specimens; 1.5.3 Traditional Methods for SLJ Bonding; 1.5.4 The Idea for a New Fixture for SLJ Bonding; 1.5.5 The Fixture; 1.6 Preparing Thick Adherend Shear Test Specimens; 1.6.1 Introduction; 1.6.2 Mold
1.6.3 Substrate Preparation1.6.4 Adhesive Application and Assembly; 1.6.5 Cure; 1.6.6 Specimen Cleaning; 1.7 Modified Thick Adherend Shear Test; 1.7.1 Specimen Geometry; 1.7.2 Bonded Specimen Geometry; 1.7.3 Machining of the Samples with Beaks; 1.8 Preparing Butt Joints; 1.8.1 Introduction; 1.8.2 Mold; 1.8.3 Substrate Preparation; 1.8.4 Adhesive Application and Assembly; 1.8.5 Cure; 1.8.6 Specimen Cleaning; 1.8.7 Alternative Manufacturing Method; 1.9 Preparing Napkin Ring Specimens; 1.9.1 Introduction; 1.9.2 Adherends; 1.9.3 Joint Manufacture-Alignment Jig; 1.9.4 Introduction of the Adhesive
1.9.5 Final Specimen Preparation1.10 Preparing T Joint Specimens; 1.10.1 Introduction; 1.10.2 Mold; 1.10.3 Substrates Preparation; 1.10.4 Adhesive Application and Assembly; 1.10.5 Cure; 1.10.6 Specimens Cleaning; 1.10.7 Results; 1.11 Preparing Flexible-to-Rigid Peel Specimens; 1.11.1 Introduction; 1.11.2 Mold; 1.11.3 Adherend Preparation; 1.11.4 Adhesive Application and Assembly; 1.11.5 Cure; 1.11.6 Final Specimen Preparation; 1.12 Preparing Specimens for Fracture Properties: Double Cantilever Beam and Tapered Double Cantilever Beam; 1.12.1 Introduction; 1.12.2 Bonding Jigs
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1.13.3.2 Adhesive Types

Sommario/riassunto

Joining techniques such as welding, brazing, riveting and screwing are used by industry all over the world on a daily basis. A furthermethod of joining has also proven to be highly successful: adhesive bonding. Adhesive bonding technology has an extremely broad rangeof applications. And it is difficult to imagine a product - in the home, in industry, in transportation, or anywhere else for that matter - thatdoes not use adhesives or sealants in some manner. The book focuses on the methodology used for fabricating and testing adhesive and bonded joint specimens. The text covers a w