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| Nota di contenuto | Chapter 1. Influence of ductility ingredients of structural adhesives on fracture energy under static mixed-mode loading -- Chapter 2. Surface pretreatment effect on the adhesively single lap joint of 6061-T6 aluminum alloy and carbon fiber T-700/epoxy composites -- Chapter 3. Emerging technologies for use in aerospace bonded assemblies -- Chapter 4. Innovative production technologies for large components -- Chapter 5. Numerical investigation of the rivet installation in an adhesively bonded joint and the load transfer in a bolted/bonded hybrid joint -- Chapter 6. Cracking stopping in the bondline of adhesively bonded composite adherents by means of a mechanical fastener: numerical and experimental investigation -- Chapter 7. Testing of adhesive bonds on large industrial components made of CFRP with a robot inspection system using active thermography, leading to reduced cycle times -- Extended non-destructive testing of composite bonds -- Chapter 9. Failure modeling of adhesive bonded joints with cohesive elements -- Chapter 10. Prediction of the behaviors of adhesively bonded steel hat section components under axial impact loading. |

This book introduces the reader to some recent progress involved in adhesive joining of structural components. The chapters, seminal SAE International technical papers, cover the most recent advances in adhesive materials, surface preparation and controls, innovative bonding technologies, hybrid bonded/bolted joints, non-destructive testing and failure modelling of adhesively bonded joints.
