

1. Record Nr.	UNINA9910983064503321
Titolo	3rd International Conference on Industrial Applications of Adhesives 2024 : Selected Contributions of IAA 2024 / / edited by Lucas F. M. da Silva, Robert D. Adams, Chiaki Sato, Klaus Dilger
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-69503-8
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (127 pages)
Collana	Proceedings in Engineering Mechanics, Research, Technology and Education, , 2731-023X
Disciplina	553.6
Soggetti	Mechanical engineering Chemical engineering Mechanics, Applied Solids Chemical structure Mechanical Engineering Chemical Engineering Solid Mechanics Structure And Bonding
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I. Formulation of adhesives -- Chapter 1. Blend Technology to Enable Lignophenolic Resins on Industrial Scale -- Part II. Pressure sensitive adhesives -- Chapter 2. SPECSIL – Silicone pressure-sensitive adhesives for special applications - summary of the project -- Chapter 3. Influence of diatomite on the self-adhesive properties of silicone pressure-sensitive adhesives -- Chapter 4. Influence of kaolin on the self-adhesive properties of silicone pressure-sensitive adhesives -- Chapter 5. Influence of citrine on the self-adhesive properties of silicone pressure-sensitive adhesives -- Part III. Adhesive properties -- Chapter 6. Inductive curing of 2C epoxy adhesives in foil to foil specimens -- Part IV. Design of adhesive joints -- Chapter 7. Enhancing mechanical performance of adhesive joints with carbon nanotubes: Optimizing ultrasonication through viscosity analysis

technique -- Chapter 8. Experimental and numerical study for the optimization of process parameters in laser welded and adhesively bonded PBT GF30 fillet joints -- Part V. Durability of adhesive joints -- Chapter 9. Influence of Saline Environment Exposure on the Fatigue Behavior of Adhesive Joints in Carbon-Epoxy Composites for Mode I and II Fracture.

---

### Sommario/riassunto

This book offers selected papers presented at the 3rd International Conference on Industrial Applications of Adhesives, held in Cascais, Portugal, March 7-8, 2024. The goal of the conference was to provide a unique opportunity to exchange information, present the latest results as well as to discuss issues relevant to industrial applications of adhesives. Special contributions on formulation of adhesives, pressure sensitive adhesives, adhesive properties, design of adhesive joints, and durability of adhesive joints have been selected for this volume. This work will appeal to a wide readership, from practitioners through graduate students to researchers working in this field.

---