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	Nota di contenuto	Adhesives and Adhesive Tapes; Contents; 1. Adhesives; 1.1. Introduction; 1.2. Adhesion Theories; 1.3. Definitions; 1.4. Raw Materials for Adhesives; 1.5. Classification of Adhesives; 1.6. Individual Adhesive Systems; 1.6.1. Adhesives That Set Without a Chemical Reaction; 1.6.1.1. Solvent-Free Adhesive Systems; 1.6.1.2. Adhesive Solutions from Which the Solvents Escape before Bonding; 1.6.1.3. Adhesive Solutions from Which the Solvents Evaporate during Bonding; 1.6.1.4. Aqueous Emulsions of Polymeric Compounds; 1.6.2. Adhesives Setting by Chemical Reaction 1.6.2.1. Adhesives Setting by Polymerization1.6.2.2. Adhesives Setting by Polyaddition; 1.6.2.3. Adhesives Setting by Polycondensation; 1.6.2.4. Vulcanizing Adhesives; 1.6.2.5. Ultraviolet/Electron Beam (UV/EB) Curing Adhesives; 1.6.2.6. Conductive Adhesives; 1.7. Bonding Techniques; 1.8. Testing of Adhesives; 1.9. Applications of Adhesives; 1.9.1. Bookbinding; 1.9.2. Adhesives for Packaging and Packaging Materials; 1.9.3. Nonwovens Hygiene Industry; 1.9.4. Hygienic Papers; 1.9.5. Gluing of Wood and Wooden Materials; 1.9.6. Footwear

	Adhesives; 1.9.7. Bonding of Plastics
	 1.9.8. Bonding of Elastomers1.9.8.1. Adhesion of Rubber; 1.9.8.2. Bonding of Rubber; 1.9.9. Bonding of Metals; 1.9.10. Adhesives for Wallcoverings; 1.9.11. Floorcovering Adhesives; 1.9.12. Building Construction Adhesives; 1.9.13. Adhesives for Bonding Textile Fabrics; 1.9.14. Flocking Adhesives; 1.9.15. Adhesives for Bonding Glass; 1.9.16. Adhesives in Automobile Manufacture; 1.9.17. Adhesives in Aircraft Construction; 1.9.18. Adhesives and Sealants in Electronics; 1.9.19. Medical Adhesives; 1.9.20. Household Adhesives; 1.9.21. Applications of Anaerobic Adhesives; 1.10. Economic Aspects 2. Adhesive Tapes2.1. Introduction; 2.2. Pressure-Sensitive Adhesion; 2.2.1. Mechanism of Pressure-Sensitive Adhesion; 2.2.2. Dynamic Mechanical Analysis; 2.3. Test Methods; 2.4. Raw Materials; 2.4.1. Elastomers; 2.4.2. Tackifier Resins; 2.4.3. Plasticizers; 2.4.4. Fillers; 2.4.5. Stabilizers; 2.4.6. Release Coatings; 2.5. Manufacturing Processes; 2.5.1. Compounding; 2.5.2. Coating; 2.5.3. Drying; 2.5.4. Cross-linking/ Curing; 2.5.5. Slitting, Cutting; 2.6. Adhesive Tape Products; 2.6.1. One-sided Adhesive Tapes; 2.6.1.1. Film Tapes; 2.6.1.2. Fiber-Reinforced Tapes; 2.6.1.3. Paper Tapes 2.6.1.4. Textile Tapes2.6.1.5. Other Backings; 2.6.1.6. Electrical Tapes; 2.6.2. Double-Sided Adhesive Tapes; 2.6.2.1. Standard Double-Sided Tapes; 2.6.2.2. Transfer Tapes; 2.6.2.3. Adhesive Pads and Strips; 2.6.2.4. High-Performance Tapes; 2.6.3. Medical Tapes; 2.7.
Sommario/riassunto	Adhesion is among the oldest technologies known to mankind, but the technology of adhesives began to boom with the developments in chemistry in the early 1900s. The last few years have seen tremendous
	progress in the performance of adhesives, allowing two pieces to be connected inseparably. Modern adhesives perform so well that more sophisticated joining methods, e.g. welding, can often be replaced by adhesion, meaning that adhesives have found new areas of application. This book allows readers to quickly gain an overview of the adhesives available and to select the best adhesive for each p