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Note generali	Includes index.
Nota di contenuto	Section A. Fundamentals -- 1. Introduction to Adhesives -- 2. The Role of Adhesives in the Economy -- 3. Fundamentals of Adhesion -- 4. Surface Preparation for Adhesive Bonding -- 5. Adhesive Selection and Screening Testing -- Section B. Adhesive Materials -- 6. Animal Glue -- 7. Casein and Mixed Protein Adhesives -- 8. Starch Based Adhesives -- 9. Natural Rubber Adhesives -- 10. Butyl Rubber and Polyisobutylene -- 11. Nitrile Rubber Adhesives -- 12. Styrene Butadiene Rubber Adhesives -- 13. Thermoplastic Rubber (A-B-A Block Copolymers) in Adhesives -- 14. Carboxylic Polymers in Adhesives -- 15. Neoprene (Polychloroprene)-Based Solvent and Latex Adhesives -- 16. Poly sulfide Sealants and Adhesives -- 17. Phenolic Resin Adhesives -- 18. Amino Resin Adhesives -- 19. Epoxy Resin Adhesives -- 20. Polyurethane- and Isocyanate-Based Adhesives -- 21. Polyvinyl Acetate Emulsions for Adhesives -- 22. Polyvinyl Alcohol for Adhesives -- 23. Polyolefin and Ethylene Copolymer-based Hot Melt Adhesives -- 24. Polyvinyl Acetal Adhesives -- 25. Acrylic Adhesives -- 26. Anaerobic Adhesives -- 27. Cyanoacrylate Adhesives -- 28. Polyester and Polyamide High Performance Hot Melt Adhesives -- 29. High Temperature Organic Adhesives -- 30. Silicone Adhesive Sealants and Abhesives -- 31. Organofunctional Silane Coupling Agents -- 32. Non-Silane Coupling Agents -- 33. Resins for Elastomer-Based Adhesives --

Section C. Adherends and Bonding Technology -- 34. Bonding Plastics -- 35. Bonding Textiles to Rubber -- 36. Wood Adhesion -- 37. Sealants and Caulks -- 38. Pressure-Sensitive Adhesives for Tapes and Labels -- 39. Bonded Abrasives -- 40. Coated Abrasives -- 41. Adhesives for Building Construction -- 42. Adhesives in the Electrical Industry -- 43. Conductive Adhesives -- 44. Structural Adhesives in the Aerospace Industry -- 45. Adhesives in the Automobile Industry -- 46. Meter, Mix and Dispensing Equipment: Basic Designs -- 47. Robotic Dispensing of Sealants and Adhesives.

Sommario/riassunto

Adhesives are indispensable. They are required bonding agents, and other key ingredients. Special attention is given to such flourishing categories and products as aircraft and automobiles, shoes and safety glass, tape and adhesives, acrylics, anaerobics, cyanoacrylates, polyurethanes, epoxy resins, polyvinyl acetate, high performance adhesives, hot melts, silicones, and to provide the knowledge needed for optimum selection, preparation, and utilization of adhesives. The last 14 chapters, on adherends and bondings and sealants. The information is detailed in technology, involve the auto industry, air- and explicit, with several hundred illustrative craft, electronics, the bonding of wood, formulations. textiles, rubber and plastics, construction, abrasives. Expert information has been supplied in 47 chapters, pressure-sensitive, nonwovens, and chapters written by 70 industry specialists, professional sealants. Mechanical handling of two-component systems is examined. Five chapters on fundamental systems is examined. The concluding fundamentals provide the theoretical and economic chapter highlights the exciting progress that is underpinnings-why adhesives work, how they being made in the use of robotics to apply adhesives are selected, how the surface is prepared, how adhesives, techniques already far advanced in automotive assembly. they are applied, how they are set, how the automotive assembly. cured joint is tested.
