

CONTENTS

	Page
Introduction	1
Recent Developments in Adhesion Science	
Application of Fracture Mechanics to Adhesive Joints	2
Determination of Intermolecular Forces by Surface Chemical Techniques	20
Fiber-Elastomer Adhesion Variables	32
Adhesion and cleavage Stress at Interfaces Between Solids and a Pressure-Sensitive Adhesive	46
Chemical Nature of Polymer to Metal Adhesion	59
Recent Advances in Adhesives Technology	
Flexural moduli and deflection Temperatures of Various Epoxy Formulations	81
Phenoxy Resin – A new Thermoplastic Adhesive	87
Adhesive Requirements for the Automotive Industry	96
Performance of Phenolic and Urea Resins in Particle-Board binding	115
PolykenProbe Tack Tester	123
Evidence of Need for Wood-Failure Standard	135
Nondestructive Testing of Adhesive-Bonded Joints	148
Strength of Epoxy Adhesives When Stressed to Failure in Milliseconds	163
Adhesives – Past , Present, and Future	
1963 Edgar Marburg lecture	179