

CONTENTS

	Page
Introduction	1
Wood Properties Important in Adhesive Bonding	4
Density	4
Shrinking and Swelling	7
Adhesives for Wood	10
Synthetic Adhesives	10
Adhesives of Natural Origin	27
Improving Performance of Wood Through Gluing	35
Crossbanded Construction	36
Laminated Construction	45
End and Corner Joint Construction	49
Preparing Wood for Gluing	56
Moisture Content	56
Drying and Conditioning	58
Storage Before Gluing	59
Surfacing Wood for Gluing	60
Machining Special Types of Joints	61
Cutting and Preparing Veneer	62
Adhesives and bonding Processes for Various Products	65
Plywood	65
Laminated Timbers	69
Furniture	70
Ship and boat Construction	76
Doors	77
Sporting Goods	81
Particleboard	81
Housing and Housing Components	82
New Products	84
Gluing Operation	87
Mixing Adhesive	87
Spreading Adhesive	88
Assembling Parts	90
Assembly Time	90
Pressing of Clamping	91
Curing Adhesive	92
Conditioning Glued Products	96
Adjustments in Adhesives and Gluing Procedures	96
Gluing Treated Wood	98
Wood Treated With Oil-Soluble Preservatives	101
Wood Treated With Waterborne Preservatives	101
Wood Treated With Fire-Retardant Chemicals	101
Quality Control	102
Glossary	109
Index	120