Contents

I rai	nslators Introduction: A Guide for Psychologists	vii
Preface		xxi
	PART I The Development of Propositional Logic	
1.	The Equality of Angles of Incidence and Reflection and the Operations of Reciprocal Implication	3
2.	The Law of Floating Bodies and the Elimination of Contradictions	20
3∙	Flexibility and the Operations Mediating the Separation of Variables	46
4.	The Oscillation of a Pendulum and the Operations of Exclusion	67
5.	Falling Bodies on an Inclined Plane and Operations of Disjunction	80
6.	The Role of Invisible Magnetization and the Sixteen Binary Propositional Operations	93
	PART II The Operational Schemata of Formal Logic	
7.	Combinations of Colored and Colorless Chemical Bodies	107
8.	The Conservation of Motion in a Horizontal Plane	123

xxvi		CONTENTS
g.	Communicating Vessels	133
10.	Equilibrium in the Hydraulic Press	148
11.	Equilibrium in the Balance	164
12.	Hauling Weight on an Inclined Plane	182
13.	The Projection of Shadows	199
14.	Centrifugal Force and Compensations	210
15.	Probable Dispersions and Correlations	224
	PART III The Structural Integration of Formal T	hought

Formal Thought from the Equilibrium Standpoint

Concrete and Formal Structures

Adolescent Thinking

245

272

334

351

16.

17.

Index