

Contents

Preface	IX
Chapter 1: Structuralism	1
Density in Phase	2
Anthropological Structuralism	3
Protoplasm: Firstness and Secondness	4
Extension in Time	6
Lability of Dielectric Energy	7
Lyotropic Energies	8
Physical Chemistry of Protoplasm	11
Chapter 2: Cartesian Dualism	12
Chance and Logic	13
Neutral Monism and Reactive Dualism	14
Bifurcation and Unification of Mind and Matter	15
The Inscrutable Nature of Reality	15
Parallelism	16
Firstness and Secondness of Protoplasm	17
Unification of Organism and Environment	19
Chapter 3: Carnot's Principle	20
Parmenides and Carnot	22
Thermodynamic Functions	24
Accessible States	27
Maximal Work and Tension	29
Chapter 4: Understanding	32
Human Knowledge and Understanding	35
Why Men Reason so Poorly	35
The Nature of Language	36
Liberalism in Politics	36
Innate Ideas and Principles	37
The Idea of Number	38
The Nature of Ideas	40

Contents	VI
Chapter 5: Skepticism	41
David Hume (1711–1776)	42
George Berkeley (1685–1753)	43
Inductive Inference	45
The Attack on Cartesianism	47
'Secondness of Extension'	48
 Chapter 6: Causality	 50
Kant's Understanding of Causality	50
The Relation of Leibniz to Kant	51
Human Activities of Leibniz	53
Principle of Sufficient Reason	54
Law and Causality in Biology	56
Anthropological and Ethological Behavior	57
 Chapter 7: Voluntarism	 59
Will and Idea	60
Irritability of Protoplasm	62
The Primitive Nervous System	63
Neuroplasm	66
Spinal Reflexes	67
Dielectric Properties of Nerve	68
 Chapter 8: Monism and Pluralism	 71
Monism, Dualism, and Pluralism	73
Neuromuscular Irritability	75
Auditory Reception and Transmission	77
 Chapter 9: Organicism	 80
The Universe of Discourse	83
Monism and Dualism in Organism and Environment	85
Components and Phases	86
Muscular Behavior	88
 Chapter 10: Growth of the Mind	 92
Growth and Development	92
Development of the Organism as a Whole	96
Aging Parameters	98
Psychological Development of Children	103
 Chapter 11: Philosophical Anthropology	 105
Man's Predecessors	106
Linguistics	109
Origin and Structure of Language	112

Comparative Philology	112
Zero-Order Functions	115
Structural and Functional Anthropology	116
Applied Anthropology	116
Primate Morphology	117
Pareto's General Sociology	118
 Chapter 12: Structure of Behavior	 120
Biological Struggle	121
Structure of Behavior	123
Hydration Energy	125
Configurational Free Energy	126
Relations between Tension and Length	128
 Chapter 13: Synechism	 131
Non-Mechanistic Behavior	132
Psychology: Introspectionist, Behaviorist, Gestalt	134
Behavioral Values	135
Emergent Evolution	137
Phase Rule Conditions of Synechism	139
Human Creativity	141
Lability of Protoplasm	144
 Chapter 14: Reason	 145
Agapism (Evolutionary Love)	146
Thirddness	147
The Dynamo	148
Reason	149
Antirationalism	150
Structure, Function, and Change	151
Reason and Protoplasm	152
Conclusions	152
 Bibliography	 154
Subject Index	159