

Contents

Acknowledgments xi

Introduction xv

I

THE DEPARTING GROUND

1

A Fundamental Circularity: In the Mind of the Reflective Scientist

An Already-Given Condition 3

What Is Cognitive Science? 4

Cognitive Science within the Circle 9

The Theme of This Book 12

2

What Do We Mean "Human Experience"?

Science and the Phenomenological Tradition 15

The Breakdown of Phenomenology 18

A Non-Western Philosophical Tradition 21

Examining Experience with a Method: Mindfulness/Awareness 23

The Role of Reflection in the Analysis of Experience 27

Experimentation and Experiential Analysis 31

II

VARIETIES OF COGNITIVISM

3

Symbols: The Cognitivist Hypothesis

The Foundational Cloud 37

Defining the Cognitivist Hypothesis 40

Manifestations of Cognitivism 43

Cognitivism and Human Experience 48

Experience and the Computational Mind 52

4

The I of the Storm

What Do We Mean by "Self"? 59

Looking for a Self in the Aggregates 63

Momentariness and the Brain 72

The Aggregates without a Self 79

III

VARIETIES OF EMERGENCE

5

Emergent Properties and Connectionism

Self-Organization: The Roots of an Alternative 85

The Connectionist Strategy 87

Emergence and Self-Organization 88

Connectionism Today 92

Neuronal Emergences 93

Exeunt the Symbols 98

Linking Symbols and Emergence 100

6

Selfless Minds

Societies of Mind 105

The Society of Object Relations 108

Codependent Arising 110

Basic Element Analysis 117

Mindfulness and Freedom 122

Selfless Minds; Divided Agents 123

Minding the World 130

IV

STEPS TO A MIDDLE WAY

7

The Cartesian Anxiety

A Sense of Dissatisfaction 133

Representation Revisited 134

The Cartesian Anxiety 140

Steps to a Middle Way 143

8

Enaction: Embodied Cognition

Recovering Common Sense 147*Self-Organization Revisited* 151*Color as a Study Case* 157*Cognition as Embodied Action* 172*The Retreat into Natural Selection* 180

9

Evolutionary Path Making and Natural Drift

Adaptationism: An Idea in Transition 185*A Horizon of Multiple Mechanisms* 188*Beyond the Best in Evolution and Cognition* 193*Evolution: Ecology and Development in Congruence* 195*Lessons from Evolution as Natural Drift* 200*Defining the Enactive Approach* 205*Enactive Cognitive Science* 207

V

WORLDS WITHOUT GROUND

10

The Middle Way

Evocations of Groundlessness 217*Nagarjuna and the Madhyamika Tradition* 219*The Two Truths* 226*Groundlessness in Contemporary Thought* 229

11

Laying Down a Path in Walking

Science and Experience in Circulation 237*Nihilism and the Need for Planetary Thinking* 239*Nishitani Keiji* 241*Ethics and Human Transformation* 245

Appendix A

Meditation Terminology 255

Appendix B

Categories of Experiential Events Used in

Mindfulness/Awareness 256

x Contents

Appendix C
Works on Buddhism and Mindfulness/Awareness 259

Notes 261

References 279

Index 295