

Contents

Acknowledgments	vii
Introduction	1
Part I The Relational-Matrix Model of Reality	11
Chapter 1 The Development of the Relational-Matrix Model	15
Section 1 The Implicit Structure of Space-Time	15
Section 2 Structure as Relationship	19
2.1 Relative existence	20
2.2 Necessary terminology	23
Section 3 Before the Beginning (of the Universe) There Was...	
Absolute Existence	27
3.1 The evolution of absolute existence into relative existence	28
Conceptual checkpoint I-1	32
Section 4 The Structural and Dynamic Aspects of the Relational Matrix	32
4.1 The structural aspect	32
4.2 The dynamic aspect	35
4.3 The relationship between reality-cell structure and dynamic	39
4.31 The rate-of-penetration constant	39
4.32 The inverse relationship between reality-cell structure and dynamic	40
Conceptual checkpoint I-2	42
Section 5 Defining the Structure of the Relational Matrix	43
5.1 The uniformity and consistency of structure	48
Conceptual checkpoint I-3	51
Section 6 Defining the Content of the Relational Matrix	52
6.1 The duality of reality-cell content	52
6.2 Uniformity and distortion of the relational matrix	54
6.3 Degrees of reality-cell distortion	57
Conceptual checkpoint I-4	60
Summary, conceptual checkpoints I-1 through I-4	60
Section 7 The Propagation of a Pattern of Distortion Content Through the Relational Matrix	61
7.1 Distortion propagation—the basics	62
7.2 Patterns of distortion propagation	63
7.21 The pattern of propagation in which distortion content decreases	66
7.22 The pattern of propagation in which distortion content increases	67
7.23 The pattern of propagation in which distortion content remains constant	68

7.3 The linear-radial distortion complex	71
Conceptual checkpoint I-5	72
Chapter 2 The Dynamic Structure of Space: Relating the Relational- Matrix Model to Space-Time and Physical Reality	77
Section 1 Introduction	77
Section 2 The “Big Bang” and the Relational Matrix	78
Section 3 Space-Time and the Relational Matrix	81
Section 4 Electromagnetic Radiation and the Relational Matrix	82
4.1 Wavelength, frequency, the speed of light, and the relational matrix	84
4.2 The quantum nature of electromagnetic radiation	86
4.3 Energy and the relational matrix	87
4.31 Electromagnetic radiation, Planck’s constant, and the relational matrix	87
4.4 Energy as distortion field	93
Conceptual checkpoint I-6	96
Section 5 The Complementarity of Electromagnetic Radiation and Gravitation	96
5.1 Matter as associations of electromagnetic radiation	97
5.2 The EMR-gravitation complex	98
5.3 Relating the EMR-gravitation complex to the relational- matrix model	98
Conceptual checkpoint I-7	100
Section 6 Primary-Distortion-Process Interaction (the Dynamic Structure of Matter)	101
6.1 The pattern of primary-distortion-process interaction that forms matter	101
6.2 The gravitational distortion as the basis of primary- distortion-process interaction	103
6.3 Repetitive primary-distortion-process interactions (interactive-process stability and pattern integrity)	106
Conceptual checkpoint I-8	111
Section 7 The Anatomy of Compound Processes	111
7.1 Compound-process periods	112
7.2 Compound processes of the second order and beyond	114
7.3 Compound-process propagation	116
7.4 Compound processes and the spatial distribution of the gravitational distortion	121
7.5 Gravitation’s attractive nature	123
7.6 Gravitational acceleration	125
7.7 Gravitation’s functional (but not actual) curvature of space	128
Conceptual checkpoint I-9	131
Section 8 Time and the Relational Matrix	133
8.1 Time is a measurement, not what’s being measured	133
8.2 Time as a clockwork mechanism	136
8.3 Temporal relativity and the interactive material structure	139
Conceptual checkpoint I-10	142

Section 9 Mass, Inertia, and the Relational Matrix	143
9.1 Background	143
9.2 Inertia and the relational matrix	144
9.3 The basis of gravitational and inertial equivalence	146
9.4 Mass, the relativity of mass, and the relational matrix	150
Conceptual checkpoint I-11	157
Section 10 The Underlying Unity of the Spatial Structure	158
10.1 The extension of physical reality from the spatial structure	161
Section 11 Quantum Theory and the Relational Matrix	164
11.1 Nonlocality and the relational matrix	167
11.2 The meaning of quantum theory	171
Conceptual checkpoint I-12	174
Part II The Integration of Experience, Awareness, and Consciousness into the Unified Model of Reality	175
Introduction to Part II	179
Chapter 1 Experiential Mechanics I	181
Section 1 Physics and the Evolution of Our Understanding of the Relationship Between the Experiencer and the Experience	181
1.1 Classical Reality	182
1.2 Relativistic reality	183
1.3 Quantum reality	185
Section 2 The Introduction of the Unexperienced/Experiential- Reality Duality	186
Section 3 The Nature of Unexperienced Reality—Two Possibilities	188
3.1 Possibility one: Assuming the existence of defined realities in unexperienced reality	189
3.2 Possibility two: Not assuming the existence of defined realities in unexperienced reality	190
3.3 Comparing and contrasting possibilities one and two	192
Conceptual checkpoint II-1	194
Section 4 The Experiential Process	195
4.1 The relational nature of the experiential process	195
4.2 Wave/particle duality and the mechanics of experience	197
4.21 The experiential process	201
4.22 How the experiential relationship creates complementary wave and particle experiences	206
4.23 Why wave/particle duality reveals itself in the quantum realm	208
4.24 Why the complementary wave and particle realities aren't simultaneously experienceable	212
4.3 The uncertainty principle and the mechanics of experience	214
Conceptual checkpoint II-2	220

Section 5 The Relational Nature of Physical Reality	221
5.1 If a tree falls in the woods...	221
5.2 The reality of functional objectivity versus the illusion of physical objectivity	225
5.3 How the illusion of independent-object existence is created	228
5.31 The mechanism of the illusion of independent-object existence	228
5.311 How the experiential process creates defined physical objects	229
5.312 How the experiential process separates the experiential reality from the experiencer	234
5.32 The support of the illusion of independent-object existence	236
5.321 The consistency of our own experiences	237
5.322 The verification of our experiences by other experiencers	238
5.4 The experiential something and the unexperienceable nothing	239
Conceptual checkpoint II-3	240
Chapter 2 Consciousness and the Awareness of Experience	245
Section 1 The Nature of Awareness	245
1.1 Awareness as intrinsic to physical reality	245
1.2 The localization of existence into awareness	247
1.3 The coexistence of awareness and experience	248
1.4 The function of the defined physical reality we experience as brain	251
Section 2 Consciousness as Absolute Existence	255
2.1 Before the beginning (of the universe) there was... consciousness	257
Section 3 Experiential Mechanics II	258
3.1 The framework of experiential reality	259
3.2 The experiential construct	261
3.21 Two experiential constructs, external and internal	262
3.211 Relating the experiential constructs to brain structure	263
3.212 Two levels of neuronal organization, invariant and variable	266
3.22 Relationships between the external and internal experiential constructs	268
3.3 Relating the two experiential constructs to experiential functions	272
3.31 The character of mental and physical experiences	276
3.32 The experiential theater	279
Conceptual checkpoint II-4	293
Section 4 Experiential Mechanics III: Positive and Negative Emotional Experiences	294
4.1 What-is and what-is-not	294

4.11 The positive and the negative	295
4.12 Projection and reflection, the good and the bad	296
4.2 The alteration of the experiential construct that is emotional experience	297
4.3 Experiential optics: The projection and reflection of awareness	299
4.4 Attention	305
4.41 Attention and the experiential lens	306
4.42 Emotional growth and atrophy	309
4.5 “What’s love got to do with it?”	311
Conceptual checkpoint II-5	315
Section 5 The Dimension of Experience	316
5.1 Projected and reflected states of being; Good moods and bad moods	317
5.2 The creation of “I” as awareness’ experience of itself	320
5.3 The trap of misidentification	325
5.4 Pleasure and pain	337
5.41 Karma	344
5.42 Judgment	351
5.5 The evolution of awareness	357
Conceptual checkpoint II-6	359
Section 6 Free Will and Intention	360
6.1 Free will and experience	360
6.2 Free will and action	373
6.21 The stress of controlling our actions	375
6.22 Attempting to escape control	381
Section 7 Moving Naturally Against Our Nature	383
7.1 Biting into the apple of knowledge	384
7.2 The cosmic game	388
 A final note	 400
 Index	 403