CONTENTS

ProloguePreface	
Chapter 1	
Introduction	
A Short Description of Emergence	7
Methodology	
Epistemology	11
The Prime Imperative of Analysis	13
Structural Logic	
Development	
Extensional Development and Change	····· ± /
Development Occur by Way of	
Structural Logic	19
Mental Model	
Additional Notes on Method	
The Mental Model Is Not a Theory	
Reduction	27
Prediction	
Something	
Role	30
Defining	
Order of Presentation	31
History of the Developing	
Understanding of Emergence	32
Errors and Contrary Opinion about	22
Emergence Are Not Discussed	32
Deeper Origins—Foundations, Developments,	
Interrelations, and Origins That Are	
Basic to the Origin of Emergence	32
Doolies.	

Chapter 2 Space

Space Exists—Space Is Place37	7
Spatial Place Is Immaterial37	
Spatial Place Has Extension37	
Spatial Place Has Parts39	
Relation40	
Combinatorial Enhancement41	1
Sequentiality—Sequential-Difference42	2
Extensional Development—	
Sequential Enhancement44	4
Spatial Place, Existential Organization, and	
the Foundation of Pattern47	7
Existential Context—A Place-to-Be48	3
Existential Requisites, and the	
Intrinsic Self-Identity of Space49	9
Spatial Place Exists, and It Continues to Exist50)
Continuance, Quantity, Parts50	
Sequentiality, Sequential-Difference,	
Noncoexistent-Sequential-Difference51	1
Relative Aspects of Noncoexistent-	
Sequential-Difference52	2
New Part, Change, Change Development53	3
Change in an Aspect of Self-Identity54	1
Consequent-Existence and	
Determinate-Reality56	5
Consequent-Existence56	
Determinate-Reality57	
Existential-Dependency59)
Uniformity and Unidirectionality of	
Continuing-Existence60	
Continuing-Existence and Organization60)
Spatial Continuance-of-Being Has Always	
Occurred and Will Always Occur61	
Simultaneity62	2

Spatial Continuing-Existence	
Existential-Context	.62
The Primal Development from the Existence	of
Space to the Continuing-Existence of Space	64
The Initiators	66
Initiation and Intrinsic Consequence	.66
Determinate Aspect of Initiation	.67
Development of Initiators	.67
Initiators and Sequential-Difference	.68
The Continuing-Existence of Space Provides the	
Temporal Aspect of Reality	69
Time—In Summary	.73
Chapter 3	
Space and Matter	
Using Space to Understand Matter	78
Factors of the First Stage Required for the	
Existence of Matter	.79
Factors of the Second Stage (Continuing-	
Existence) Required for the	
	.84
The Identity of Matter Is Based on the Existence	
of Substantiality	86
Materially Based Extensional Development and	
Materially Based Change Development	87
Space and Matter Are Coexistent—	
Matter Occupies Space	90
Development of Factors from Their Spatial Form	
to Their Material Form—Nonpathway	
Factor Development	95
Preliminary Considerations	95
Nonpathway Factor Development from	
Space to Matter	97

Chapter 4 Space, Matter, and Motion—The Origin of Emergence

The Existence of Motion	103
The Intrinsic Nature of Motion	103
Factors of Self-Identity and	
Continuing-Existence of Mot	ion103
Factors of Motion Itself—The Basic	
Intrinsic Qualities of Motion	105
Motion Is an Initiator	110
Initiation Situation—	
Organizational Initiation .	112
Motion Is a Developed Form of Change	119
The Role of Isomorphism	
The Role of Continuing-Existence in	
Developed Change	123
Space and Two Static Units of Matter	
Motion of a Unit of Matter in the Presence of	
Another Unit That is Not Moving	129
Factors of This Stage	
Discussion of Factors at the Origin of	100
Emergence	133
Why Is There Emergence?	128
willy is There Emergence:	130
a1 . =	
Chapter 5	
The Origin of Cause	
The Development That Leads to Cause	142
A Review of the Development of	1.40
Initiation	
The General Pattern of the Development	144
Factors That Determine This	
General Pattern of Development.	145
Development at Third Level Extensional	
Pattern	146

The First Stage of Initiation at the	
Third Level of Extensional	
Pattern	146
The Second Stage of Initiation at the	
Third Level of Extensional	
Pattern	146
The Third Stage of Initiation at the	
Third Level of Extensional	
Pattern	150
Additional Points of Interest about	
Transformation Points	
Development at Fourth Level Extensional	
Pattern	153
The First Stage of Initiation at the	
Fourth Level of Extensional	
Pattern	154
The Second Stage of Initiation at the	
Fourth Level of Extensional	
Pattern	155
The Third Stage of Initiation at the	
Fourth Level of Extensional	
Pattern—And the Emergence	
of Contact	158
The Development-of-Origin of Cause	164
The Third Stage of Initiation at the	
Fourth Level of Extensional	
Pattern—And the Emergence	
of Push	164
V1 1 4011	
~1 ~	
Chapter 6	
The Origin of Self-Organization	ı
	_
The Basics	170
	1/2
Self-Organization through the Collision	
Situation	
Adjacent Relation	182
Contact Relation	
Rlocking	

The Changed Motion of the Moving Unit	189
Push	191
The New Motion of the Blocking Unit	
Appendix 1	
The Differences between the Extension of Spatial	
Place and the Continuing-Existence of	
Spatial Place	197
. 1	
Appendix 2	
Summary of Factors That Are Identical in Spatial	
and Material Continuing-Existence	203
Appendix 3	
Two Lists of the Factors That Play Roles with	
	205
Motion	203
Appendix 4	
Summaries of the Development of Some of the	
Individual Factors that Occur in the	
Foundational Development of Reality	217
i cuitaudoliul Developinent of iteanty	····· 4 1 /