

Contents

Acknowledgments	viii
Introduction	ix
1 Fragmentation and wholeness	1
<i>Appendix: Résumé of discussion on Western and Eastern forms of insight into wholeness</i>	19
2 The rheomode – an experiment with language and thought	27
1 <i>Introduction</i>	27
2 <i>An inquiry into our language</i>	28
3 <i>The form of the rheomode</i>	32
4 <i>Truth and fact in the rheomode</i>	41
5 <i>The rheomode and its implications for our overall world view</i>	46
3 Reality and knowledge considered as process	48
1 <i>Introduction</i>	48
2 <i>Thought and intelligence</i>	50
3 <i>The thing and the thought</i>	53
4 <i>Thought and non-thought</i>	56
5 <i>The field of knowledge, considered as process</i>	62
4 Hidden variables in the quantum theory	65
1 <i>Main features of the quantum theory</i>	65

2	<i>Limitations on determinism implied by the quantum theory</i>	67
3	<i>On the interpretation of indeterminism in the quantum theory</i>	67
4	<i>Arguments in favour of the interpretation of quantum-mechanical indeterminism as irreducible lawlessness</i>	69
5	<i>Bohr's resolution of the paradox of Einstein, Rosen and Podolsky – the indivisibility of all material processes</i>	73
6	<i>Preliminary interpretation of quantum theory in terms of hidden variables</i>	76
7	<i>Criticisms of our preliminary interpretation of quantum theory in terms of hidden variables</i>	80
8	<i>Steps toward a more detailed theory of hidden variables</i>	84
9	<i>Treatment of quantum fluctuations</i>	86
10	<i>Heisenberg's indeterminacy principle</i>	88
11	<i>The indivisibility of quantum processes</i>	91
12	<i>Explanation of quantization of action</i>	96
13	<i>Discussion of experiments to probe sub-quantum level</i>	105
14	<i>Conclusion</i>	109
5	Quantum theory as an indication of a new order in physics	
	Part A: The development of new orders as shown through the history of physics	111
1	<i>Introduction</i>	111
2	<i>What is order?</i>	115
3	<i>Measure</i>	118
4	<i>Structure as a development from order and measure</i>	119
5	<i>Order, measure and structure in classical physics</i>	121
6	<i>The theory of relativity</i>	122
7	<i>Quantum theory</i>	128
6	Quantum theory as an indication of a new order in physics	
	Part B: Implicate and explicate order in physical law	140
1	<i>Introduction</i>	140
2	<i>Undivided wholeness – the lens and the hologram</i>	144
3	<i>Implicate and explicate order</i>	147
4	<i>The holomovement and its aspects</i>	150
5	<i>Law in the holomovement</i>	156

<i>Appendix: implicate and explicate order in physical law</i>	157
7 The enfolding-unfolding universe and consciousness	172
1 <i>Introduction</i>	172
2 <i>Résumé, contrasting mechanistic order in physics with implicate order</i>	172
3 <i>The implicate order and the general structure of matter</i>	179
4 <i>Quantum theory as an indication of a multidimensional implicate order</i>	186
5 <i>Cosmology and the implicate order</i>	190
6 <i>The implicate order, life and the force of overall necessity</i>	193
7 <i>Consciousness and the implicate order</i>	196
8 <i>Matter, consciousness and their common ground</i>	207
Notes	214
Index	219