## SUMMARY TABLE OF CONTENTS

1.	What Is Science?	1
	PART I DETERMINISM AND INDETERMINISM IN CLASSICAL	
	PERSPECTIVE	19
2.	Determinism	21
3.	Indeterminism and Probability	49
	PART II. HOW THE PHENOMENA DEMAND QUANTUM	
	THEORY	77
4.	The Empirical Basis of Quantum Theory	79
5.	New Probability Models and their Logic	106
	PART III. MATHEMATICAL FOUNDATIONS	137
6.	The Basic Theory of Quantum Mechanics	139
7.	Composite Systems, Interaction, and Measurement	193
	PART IV. QUESTIONS OF INTERPRETATION	239
8.	Critique of the Standard Interpretation	241
9.	Modal Interpretation of Quantum Mechanics	273
10.	EPR: When Is a Correlation Not a Mystery?	338
11.	The Problem of Identical Particles	375
12.	Identical Particles: Individuation and Modality	434
NOTES		483
BIBLIOGRAPHY		502
INDEX		529