## **Contents**

Introduction: Taking Consciousness Seriously xi

1	· 1	E 4	$\cap$	I	ī	N	ΙI		Α	٦	ГΙ	1	$\neg$	١	١	C	
ı		r١	. ,		1	IN	и	J	Α		1	ı	. ,	Т	v	. `	

1	Two	Concepts	of	Mind	3
---	-----	----------	----	------	---

- 1. What is consciousness? 3
- 2. The phenomenal and the psychological concepts of mind 11
- 3. The double life of mental terms 16
- 4. The two mind-body problems 24
- 5. Two concepts of consciousness 25
- 2 Supervenience and Explanation 32
  - 1. Supervenience 32
  - 2. Reductive explanation 42
  - 3. Logical supervenience and reductive explanation 47
  - 4. Conceptual truth and necessary truth\* 52
  - 5. Almost everything is logically supervenient on the physical\* 71

## II THE IRREDUCIBILITY OF CONSCIOUSNESS

- 3 Can Consciousness Be Reductively Explained? 93
  - 1. Is consciousness logically supervenient on the physical? 93
  - 2. The failure of reductive explanation 106
  - 3. Cognitive modeling 111
  - 4. Neurobiological explanation 115
  - 5. The appeal to new physics 118
  - 6. Evolutionary explanation 120
  - 7. Whither reductive explanation? 121

4	Naturalistic Dualism 123	
	1. An argument against materialism 123	
	2. Objections from a posteriori necessity*	1
	3. Other arguments for dualism* 140	
	4. Is this epiphenomenalism?* 150	
	· ·	

- 6. Reflections on naturalistic dualism 168
- 5 The Paradox of Phenomenal Judgment 172
  - 1. Consciousness and cognition 172

5. The logical geography of the issues

- 2. The paradox of phenomenal judgment 177
- 3. On explaining phenomenal judgments 184
- 4. Arguments against explanatory irrelevance 191
- 5. The argument from self-knowledge\* 192
- 6. The argument from memory\* 200
- 7. The argument from reference\* 201
- 8. The content of phenomenal beliefs\* 203

## III TOWARD A THEORY OF CONSCIOUSNESS

31

- 6 The Coherence Between Consciousness and Cognition 213
  - 1. Toward a nonreductive theory 213
  - 2. Principles of coherence 218
  - 3. More on the notion of awareness 225
  - 4. The explanatory role of coherence principles 233
  - 5. Coherence as a psychophysical law 242
- 7 Absent Qualia, Fading Qualia, Dancing Qualia 247
  - 1. The principle of organizational invariance 247
  - 2. Absent qualia 251
  - 3. Fading qualia 253
  - 4. Inverted qualia 263
  - 5. Dancing qualia 266
  - 6. Nonreductive functionalism 274

- Consciousness and Information: Some Speculation 276
  - 1. Toward a fundamental theory 276
  - 2. Aspects of information
  - 3. Some supporting arguments 287
  - 4. Is experience ubiquitous? 293
  - 5. The metaphysics of information
  - 6. Open questions 308

## IV **APPLICATIONS**

- Strong Artificial Intelligence
  - 1. Machine consciousness 309
  - 2. On implementing a computation
  - 3. In defense of strong AI 320
  - 4. The Chinese room and other objections
  - 5. External objections 328
  - 6. Conclusion 331
- The Interpretation of Quantum Mechanics 10
  - 1. Two mysteries 333
  - 2. The framework of quantum mechanics
  - 3. Interpreting quantum mechanics
  - 4. The Everett interpretation 346
  - 5. Objections to the Everett interpretation
  - 6. Conclusion 356

Notes 359 Bibliography 391

Index 405