## Contents Construction Reconstruction

Prej	osophy of Science (2): Criticism and Alternatives to Positivism sand	ling ix
1 90	Science: Why, and How? Some Basic Ideas in Scientific Method  1.1 Introduction: Why Science?  1.2 Knowledge: Realism and Idealism (Relativism), Common Sense and Science	1 2
	1.3 Arguments: Deduction, Induction, Abduction	11
	1.4 Laws, Theories, Models and Causes	19
	Pragmatism: Between Realism and Relativism outside and including 1.5	31
	Further Reading	8, 31
2	Kind of Explanations: Laws, Interpretations and Functions	32
4	2.1 Introduction: Modes of Explanation: Nomological,	
	Hermeneutical, Functional	32
	2.2 Nomological Explanation: The Classical View and its Problems	33
	2.3 Hermeneutic Understanding: An Alternative	
	to Nomological Explanation	41
	2.4 Functional and Teleological Explanation	45
	2.5 A New Development in Functional Explanation:	
	Mechanistic Explanation	53
	2.6 Reduction and Levels of Explanation	57
	2.7 Conclusion: The Multiplicity of Explanation	67
	Further Reading sybolwood offineith and a sybolwood offineith a sybolwood offineith and a sybolwood offineith a sybolwood offineith and a sybolwood offineith and a sybolwood offineith a sybolwood offineith a sybolwood offineith and a sybolwood offineith a sybolwood offineith and a sybolwood offineith a sybo	68
2	Philosophy of Science (1): Logical Positivism and its Failure	69
3	3.1 Introduction: Scientific Methods, Objectivity and Rationality	69
	3.2 Logical Positivism and Demarcation	71
	3.3 Wittgenstein's Volte-Face	77
	3.4 The Impossibility of Logical Empiricism: Observation and Theory	79
	3.5 Further Trouble for Logical Positivism: Holism,	
	Underdetermination, and Theory-Ladenness	82

	3.6	Demarcation Revived – Popper	86
	3.7	Demarcation Abandoned: Kuhn on Paradigms and	
		Scientific Revolutions	92
	3.8	Rational Reconstruction and Methodological Anarchism: Lakatos	
		and Feyerabend	99
	3.9	Since Kuhn: Post-Positivism in a Nutshell	102
	3.10	Conclusion: The Moral on Demarcation	105
	Furt	her Reading	106
4	Phile	osophy of Science (2): Criticism and Alternatives to Positivism	108
	4.1	Introduction: Doubts about Objectivity	108
	4.2	Hermeneutics: History and Language, Understanding	
		and Interpretation	109
	4.3	Social Constructionism	115
	4.4	Rhetoric, Discursive Psychology and Psychology as Criticism	118
	4.5	Problems of Realism and Relativism	123
	4.6	Revisions of Realism: Knocking the Rough Edges Off	130
	4.7	Pragmatism: Between Realism and Relativism	137
	4.8	Conclusion: Salvaging Objective Knowledge	141
	Furt	her Reading another Laws, Interpretations and Phincipals	144
5	Socie	ology and Psychology of Science	145
	5.1	Introduction: Science as a Human Activity	145
	5.2	Ideology and the Critical Theory	147
	5.3	Social History of Science	151
	5.4	The Social Character of Scientific Knowledge and the	
		Strong Programme	153
	5.5	The Sociology of Scientific Practice	157
	5.6	The 'Science Wars'	164
	5.7	Psychology of Science: Cognitive Origins of Science	166
	5.8	Conclusion: The Social and Psychological Nature	
		of Scientific Knowledge	171
	Furt	her Reading such at the many position is Failure of Science (1): Logical Positivism and its Failure	173
6	Introducing Philosophy of Mind, Brain and Cognition		
-15	6.1	Introduction: What is Mind?	175 175
	6.2	Traditional Views on the Nature of Mind: Dualism, Materialism,	3.3
		Behaviourism	177
	6.3	Aspects of Mind: Intelligence and Consciousness	182
		Inderdetermination and I bearvet adequees	

## vgolodoya Contents includes in

	6.4	Intentionality: Another Aspect of Mind and Individual and brough	184
	6.5	Various Interpretations of Intentionality and stolk a base notestions.	187
	6.6	Folk Psychology, Intentionality and Mind-reading	197
	6.7	Mental Causation	202
	6.8	Three Perspectives on Mind and Brain: Multiplicity Three Perspectives on Mind and Brain: Multiplicity	
		of Explanations silenO bas respective of Explanations	206
	6.9	Conclusion: Explanations in the Study of Mind, Brain and Management	
	0.,	A Tentative Definition: The External and Internal Perspectation	211
	Furth	Phenomenal Consciousness	213
		ak is about theoretical and philosophical issues in processing	
7	Mod	ern Approaches to Mind (1): The Language-based View:	
I.S.	Func	tionalism and the Computational Theory of Mind	214
	7.1	Introduction: The Origins of Computationalism	214
	7.2	Functionalism, Multiple Realization and the Autonomy	
		of Cognitive Science	216
	7.3	Computation and Formal Languages	223
	7.4	The Computational Theory of Mind: Representations, Symbols,	
		Meaning and Intentionality	227
	7.5	Artificial Intelligence and the Idea of a Physical Symbol System	235
	7.6	Conclusion: Classical Computationalism in Trouble	241
		her Reading	242
		seemzed by the search for a demarcation enterior to distinguish so	
8	Mod	lern Approaches to Mind (2): The Brain-based View:	
fi	Neu	rophilosophy, Connectionism and Dynamicism	243
	8.1	Introduction: An Alternative View on Mind	243
	8.2	Symbols versus Networks	245
	8.3	The Third Contender: Dynamicism, Representations Abandoned?	256
	8.4	Neurophilosophy and Naturalism	264
	8.5	Folk Psychology: Vindicated or Eliminated?	271
	8.6	Conclusion: Three Views of Mind: Symbols, Networks	
		or Dynamic Systems?	275
	Furt	her Reading	278
		Longside this philosophical debate, Kuhn's work gave rise	
9	The	Extended Mind: Biology, Body, and Environment	279
	9.1	Introduction: Out of Our Heads	279
	9.2	Evolutionary Psychology: Adaptations as Explanations	280
	9.3	A-Life: Life from the Bottom Up	288
	9.4	Mind in Action: Uniting Brain, Body and World	290
	9.5	The Body in the Mind	296

9.6 Beyond the Individual Mind: Cultural and Linguistic Origins	299
9.7 Conclusion and a Note on Methods	307
Further Reading Sychology, Intentionality and Mind-reading Sychology 197	309
10 Consciousness and Free Will and Brain Bank and Proceedings of the Procedure of the Proce	310
10.1 Consciousness and Qualia	311
10.2 Mentalistic and Naturalistic Theories on Consciousness	312
10.3 A Tentative Definition: The External and Internal Perspective	320
210.4 Phenomenal Consciousness	321
10.5 Brainwork Organization	324
10.6 Searching for the Neural Correlate of Consciousness	325
10.7 Problems for the Idea of Correlation	
10.8 Is Consciousness Nothing but Brainworks? 1910 of Carolinabound	331
10.9 To Sum Up: If Consciousness is not an Illusion	333
10.10Free Will, Determinism and Responsibility	334
10.11Dennett's Naturalistic Account	339
10.12Free Will, Consciousness and Self-Regulation	340
10.13 Conclusion: Consciousness, Free Will and Conscious Control	342
Further Reading Wanted Assemble and Complete Land Company and Comp	343
Conclusion: Classical Computationalism in Trouble guillas raditu 241	
Boxes gailers H rad	344
Glossary	346
Bibliography School Market Mar	364
Author Index Author Index	
Subject Index Subject Index Subject Index	393
245 4 The Social Character of Scientific Knowledghoundshieueray alodmy?	