

Contents

Preface	xi
Introduction	i
1 Deterministic causation	
1 Singular and general causation	6
2 Two sorts of cause	7
3 Causation's incomplete truth table	12
4 Deterministic causation	13
5 Causal conditionals	14
6 Strict conditionals	16
7 Closest-world conditionals	18
2 The chances of effects	
1 Chances	21
2 The chances of an effect	24
3 Closest-world chances	27
4 Chance, sufficiency and necessity	28
3 Interpretations of probability	
1 Probability and necessity	31
2 Credence	32
3 Evidential probability	37
4 Frequency	38
4 Chance	
1 The conditions on chance	44
2 Frequencies and credences	45
3 What chance is	49
4 Chances and propensities	50
5 Indeterministic causation	
1 Radioactivity	52
2 Hidden variables	54
3 The irrelevance of hidden variables	56
4 The connotations of causation	58
5 Evidence	61
6 Explanation	63
7 Conclusion	66
6 Raising the chances of effects	
1 The limits of indeterminism	67
2 Causes as evidence	68
3 The evidence of our senses	70
4 Explanation and inference	73
5 Explanation and necessity	75

7	Causes as means	
1	The means-end connotation	79
2	Valuations and utilities	80
3	Means and ends	83
4	Means and mean utilities	85
5	Causes as means to ends	88
6	The limitations of mean utility	90
8	Degrees of effectiveness	
1	Connotations that come by degrees	93
2	More or less evidence	94
3	Better and worse explanations	96
4	More or less useful means	97
5	More or less effective causes	100
6	Overdetermination	101
7	Overdetermination and mental causation	103
9	Factual causes and effects	
1	Iterated causation	106
2	The initial case for facts	109
3	The identity of facts	110
4	The argument that causation links all facts or none	113
5	How causation can link facts	114
6	Facts and events	119
10	Events	
1	Events and things	121
2	The temporal parts of events	122
3	The identity of events	125
4	Events and changes	126
5	Davidson's argument for events	127
6	Events for the sake of argument	128
11	Particular causes and effects	
1	Causation and causal explanation	130
2	Negative causes and effects	131
3	Existential and particular causes and effects	135
4	Facts first?	139
12	Affecting particulars	
1	Causing and affecting	140
2	Essential and inessential facts	141
3	Identity criteria	143
4	How particulars cause and affect each other	144
5	Opaque causation	146
6	Transparent causation	149
7	Transparent and factual causation	153
13	Causal relations	
1	The case for a relation of causation	156
2	Properties and relations, predicates and concepts	157
3	Causation between particulars	160
4	Facts and facta	161
5	Facta as causes and effects	162
6	The facta of causation	166
14	Causal facta	
1	Propensities and properties	170
2	Properties and laws	172
3	The facta of propensity	175
4	Causal structures	179
5	The structure of causal facta	183

15 Properties

1	Universals	185
2	Facta and laws	186
3	Laws and law statements	187
4	Laws and properties	190
5	Nominalism	192
6	Identifying properties	193
7	Complex properties	196

16 Laws

1	Laws and particulars	200
2	Properties and particulars	201
3	Nomic relations	203
4	Determinable universals	208
5	Nomic facta and nomic facts	210
6	Nomic and singular facta	213
7	Laws and spacetime	214
8	Points and other particulars	217

17 Time

1	The precedence of causes	219
2	Simultaneous causation	220
3	Causal loops	224
4	Contiguity	229
5	Causability and precedence	234
6	The causal form of inner sense	237

	Bibliography	244
--	--------------	-----

	Index	249
--	-------	-----