Contents



Preface to this edition by MARC LANGE pa	age xi
Acknowledgements	xiii
Part I A critique of the Regularity theory	1
1 Introductory	3
1 The importance of our topic	3
2 A possible difficulty in investigating our topic	5
3 Assumptions	7
4 The Regularity theory	9
2 Critique of the Regularity theory (1): The problem of accidental	
uniformities	10
1 The Naive Regularity theory of law	10
2 Classification of criticisms of the Regularity theory	11
3 Single-case uniformities	12
4 How to pass from single-case uniformities to multi-case uniformities	14
5 How to pass from local uniformities to Humean uniformities	15
6 Unrealized physical possibilities	16
7 Humean uniformities with non-existent subjects	17
3 Critique of the Regularity theory (2)	22
1 Spatio-temporally limited laws	22
2 Local uniformities as laws	24
3 Infinitely qualified laws	25
4 Probabilistic laws	27
5 Probabilistic laws: the retreat to Positivism	32
6 Functional laws	35
4 Critique of the Regularity theory (3)	36
1 Lack of inner connection	36
2 Laws of nature as Principles of Explanation	37
3 The Paradoxes of Confirmation	38
4 The Problem of Counterfactuals	43
5 The Problem of Induction	48

5	Can the Regularity theory be sophisticated?	56
	1 Preliminary	56
	2 Epistemic restriction upon uniformities	57
	3 The Resiliency solution	60
	4 Systematic restrictions upon uniformities	61
Pa	rt II Laws of nature as relations between universals	69
6	Laws of nature as relations between universals	71
	1 The need for universals	71
	2 The theory of universals	75
	3 A first formulation	78
	4 Laws as universals	81
	5 Causation as a relation between particulars	86
	6 Necessitation, universals and laws	89
	7 Advantages and some disadvantages of conceiving of laws	
	of nature as relations between universals	92
	8 Braithwaite's and Popper's argument	99
7	Functional laws	103
8	Uninstantiated laws	109
	1 Tooley's cases	109
	2 Tooley's conclusions	110
	3 Tooley's cases solved by the introduction of powers?	113
	4 A sceptical treatment of Tooley's cases	115
	5 Uninstantiated laws with nomically impossible antecedents	117
9	Probabilistic laws	119
	1 The form of probabilistic laws	119
	2 Probabilistic laws as probabilities of necessitation	122
	3 Other types of probabilistic laws	126
10	Further considerations concerning the form of laws	128
	1 Scientific identification	128
	2 Laws with universal scope	131
	3 Are there any Exclusion laws?	134
	4 Iron laws and oaken laws	137
	5 Disjunctive laws	140
	6 Do laws always link the properties of the same object?	143
	7 Formal properties of necessitation	145
11	Are the laws of nature necessary or contingent?	148
	1 Arguments for the necessity of laws	149
	2 Strong Necessity	152

	ix
3 Weak Necessity	155
4 Uninstantiated laws	158
Conclusions	161
Works cited	163
Index	166