

Contents

ANSGAR BECKERMANN: Introduction — Reductive and Nonreductive Physicalism	1
Part I	
ACHIM STEPHAN: Emergence — A Systematic View on its Historical Facets	25
BRIAN P. McLAUGHLIN: The Rise and Fall of British Emergentism	49
ANSGAR BECKERMANN: Supervenience, Emergence, and Reduction	94
JAEGWON KIM: "Downward Causation" in Emergentism and Non-reductive Physicalism	119
PAUL TELLER: A Contemporary Look at Emergence	139
Part II	
ROBERT VAN GULICK: Nonreductive Materialism and the Nature of Intertheoretical Constraint	157
PAUL TELLER: Subjectivity and Knowing What It's Like	180
CLYDE L. HARDIN: Physiology, Phenomenology, and Spinoza's True Colors	201
HANS FLOHR: Qualia and Brain Processes	220
Part III	
BERND-OLAF KÜPPERS: Understanding Complexity	241
WILLIAM BECHTEL and ROBERT C. RICHARDSON: Emergent Phenomena and Complex Systems	257
PAUL HOYNINGEN-HUENE: On the Way to a Theory of Antireductionist Arguments	289
Name Index	303
Subject Index	307