

1. Record Nr.	UNINA9910786951703321
Autore	Boantza Victor D.
Titolo	Matter and method in the long chemical revolution : laws of another order // Victor D. Boantza
Pubbl/distr/stampa	London ; ; New York : , : Routledge, , 2016
ISBN	1-4724-0398-3 1-317-09933-8 1-315-59433-1 1-4094-1868-5
Descrizione fisica	1 online resource (283 p.)
Collana	Science, Technology and Culture, 1700-1945
Disciplina	540.9/033
Soggetti	Chemistry - History - 18th century Science, Renaissance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"First published 2013 by Ashgate Publishing"--t.p. verso.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; List of Figures and Tables; Duclos and Chymistry at the Early Academie des Sciences; Series Editor's Preface; Acknowledgments; Abbreviations; Introduction; Historiography; Scientific Revolutions and Crises; Structure and Themes; PART I: Chymistry in the Scientific Revolution; 1 Duclos Reads Boyle; The Crisis of Chymical Principles; The Origin and Form of Sweet Qualities; Duclos's Principles; Particles of Saltpeter: Mechanism and Chymical Causality; On Boyle's Unsuccessful Experiments; Conclusion; 2 Fire, Alkahest, and Elements; Duclos's Chymical Natural History of Plants Dodart Enters the Arena: Natural History by FireRadical Analysis and the Inner Life of Matter; Conclusion; 3 From Cohesion to Gravity; The Causes of Gravity; Forces, Big and Small: The Newtonian Context; The Causes of Coagulation: Chymical Operations and Mechanical Speculations; Conclusion; 4 Interlude: The Crisis of Inter-Revolutionary Chemistry; PART II: Chemistry in the Chemical Revolution; 5 Priestley's Quest for Airs and Ideas; Priestley's Chemical Practice and Writing(s); Experimental Commitments: The Case of Nitrous Air; Method, Text, and Epistemology; Conclusion 6 Pneumatic Metaphysics: Scheele, Crawford, and KirwanKirwan's Work

and Writings on Phlogiston; Phlogistic Transmutations and Pneumatic Metaphysics; The Phlogistic Constitution and Role of Heat; Kirwan Enters the Arena: Innovations and Renovations; Conclusion; 7 Operational Uniformity and a "false shew of simplicity"; From Vapors to Facts; From Proportions to Quantities; The Force of Affinity and Affinity as a Force; From Uniformity to Simplicity; Conclusion; "Laws of Another Order": Concluding Remarks; Bibliography; Index

---

Sommario/riassunto

Matter and Method in the Long Chemical Revolution examines the role of and effects on chemistry of both the seventeenth-century scientific revolution and the eighteenth-century chemical revolution in parallel, using chemistry during the chemical revolution to illuminate chemistry during the scientific revolution, and vice versa. Focusing on the crises and conflicts of early modern chemistry (and their retrospectively labeled 'losing' parties), the author traces patterns of continuity in matter theory and experimental method from Boyle to Lavoisier, and reevaluates the disciplinary relationship

---