Record Nr. UNINA9910798378703321 Essays in the philosophy of chemistry / / edited by Eric Scerri and Grant **Titolo** Fisher Pubbl/distr/stampa New York, New York:,: Oxford University Press,, 2016 ©2016 **ISBN** 0-19-063154-6 0-19-755966-2 0-19-049460-3 Descrizione fisica 1 online resource (421 p.) Collana Oxford scholarship online Disciplina 540.1 Chemistry - Philosophy Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Previously issued in print: 2016. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Cover; Half Title Page; Title Page; Copyright; Dedications; Contents; Contributors: Second Half Title Page: Introduction : PART ONE History and Philosophy of Chemistry ; CHAPTER 1: Alan Chalmers. Robert Boyle's Corpuscular Chemistry: Atomism before its Time; CHAPTER 2: Nicholas W. Best. What Was Revolutionary about the Chemical Revolution?; CHAPTER 3: Kostas Gavroglu & Ana Simoes. Philosophical Issues in (Sub)Disciplinary Contexts. The Case of Quantum Chemistry; PART TWO Reduction and **Explanation** CHAPTER 4: Marina Paola Banchetti-Robino & Jean-Pierre Noel Llored. Reality Without Reification: Philosophy of Chemistry's Contribution to Philosophy of MindCHAPTER 5: Lee McIntyre. Who's Afraid of Supervenient Laws?; CHAPTER 6: Eric R. Scerri. The Changing Views of a Philosopher of Chemistry on the Question of Reduction; CHAPTER 7: Noretta Koertge. Contingencies in Chemical Explanation; CHAPTER 8: Richard M. Pagni. Reaction Mechanisms; PART THREE Metaphysical Issues ; CHAPTER 9 : Rom Harre. Causality in Chemistry: Regularities and Agencies CHAPTER 10: Joseph E. Earley, Sr. How Properties Hold Together in SubstancesCHAPTER 11: Hasok Chang. Scientific Realism and Chemistry ; CHAPTER 12: Robin Findlay Hendry. Natural Kinds in Chemistry; PART

FOUR Theory and Practice ; CHAPTER 13: Hinne Hettema. Chemistry and "The Theoretician's Dilemma"; CHAPTER 14: Grant Fisher. Divergence, Diagnostics, and a Dichotomy of Methods; CHAPTER 15: Guillermo Restrepo. Mathematical Chemistry, a New Discipline; CHAPTER 16: Rein Vihalemm. Science, f-Science, and the Dual Character of Chemistry; Index

Sommario/riassunto

The philosophy of chemistry has emerged in recent years as a new and autonomous field within the Anglo-American philosophical tradition. With the development of this new discipline, Eric Scerri and Grant Fisher's 'The Philosophy of Chemistry' is a timely and definitive guide to all current thought in this field. This edited volume serves to map out the distinctive features of the field and its connections to the philosophies of the natural sciences and general philosophy of science more broadly.