

1. Record Nr.	UNINA9910811237303321
Titolo	Formalism and beyond : on the nature of mathematical discourse // edited by Godehard Link
Pubbl/distr/stampa	Boston : , : De Gruyter, , [2014] ©2014
ISBN	1-61451-847-5 1-61451-996-X
Descrizione fisica	1 online resource (430 p.)
Collana	Logos : Studien zur Logik, Sprachphilosophie und Metaphysik, , 2198-2201 ; ; volume 23
Disciplina	510.1
Soggetti	Mathematics - Philosophy Logic, Symbolic and mathematical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Preface -- Duality, Epistemic Efficiency & Consistency / Detlefsen, Michael -- Frege on Quantities and Real Numbers in Consideration of the Theories of Cantor, Russell and Others / Schirn, Matthias -- Frege on Formality and the 1906 Independence-Test / Blanchette, Patricia A. -- Formal Discourse in Russell: From Metaphysics to Philosophical Logic / Link, Godehard -- On Live and Dead Signs in Mathematics / Mühlhölzer, Felix -- Generalization and the Impossible: Issues in the search for generalized mathematics around 1900 / Ziche, Paul -- Assumptions of Infinity / Niebergall, Karl-Georg -- The Interpretation of Classes in Axiomatic Set Theory / Roth, Daniel / Schneider, Gregor -- Purity in Arithmetic: some Formal and Informal Issues / Arana, Andrew -- Domain Extensions and Higher-Order Syntactical Interpretations / Polaski, Marek -- Finite Methods in Mathematical Practice / Crosilla, Laura / Schuster, Peter -- List of Contributors -- Name Index
Sommario/riassunto	The essays collected in this volume focus on the role of formalist aspects in mathematical theorizing and practice, examining issues such as infinity, finiteness, and proof procedures, as well as central historical figures in the field, including Frege, Russell, Hilbert and Wittgenstein. Using modern logico-philosophical tools and systematic conceptual

and logical analyses, the volume provides a thorough, up-to-date account of the subject.
