1.	Record Nr.	UNINA9910971350603321
	Autore	Gillies Donald <1944-, >
	Titolo	Frege, Dedekind and Peano on the foundations of arithmetic / / D.A. Gillies
	Pubbl/distr/stampa	Abingdon, Oxon ; ; New York : , : Routledge, , 2011
	ISBN	1-136-72107-X 1-283-96574-7 0-203-81628-5 1-136-72108-8
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (114 p.)
	Collana	Routledge revivals
	Disciplina	513
	Soggetti	Arithmetic - Foundations
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	"First published in 1982 by Van Gorcum"--T.p. verso.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Cover; Frege, Dedekind and Peano on the Foundations of Arithmetic; Title Page; Copyright Page; Preface; Table of Contents; Introduction; 1. Kant's Theory of Mathematics; 2. Frege's Criticisms of Kant; 3. Mill's Theory of Mathematics; 4. Frege's Criticisms of Mill; 5. The content of a statement of number is an assertion about a concept; 6. Frege's Platonism; 7. Frege's Logicism; 8. Dedekind and Set Theory; 9. Dedekind's Development of Arithmetic; 10. Peano's Axioms. General Comparison of Frege, Dedekind, and Peano; 11. Frege's Begriffsschrift; 12. Frege's Grundgesetze, and Russell's paradox Appendix I. On NotationAppendix II. On the Principle of Mathematical, or Complete, Induction; References; Index
	Sommario/riassunto	First published in 1982, this reissue contains a critical exposition of the views of Frege, Dedekind and Peano on the foundations of arithmetic. The last quarter of the 19th century witnessed a remarkable growth of interest in the foundations of arithmetic. This work analyses both the reasons for this growth of interest within both mathematics and philosophy and the ways in which this study of the foundations of arithmetic led to new insights in philosophy and striking advances in logic. This historical-critical study provides an excellent introduction to the problems of the philosop