1.	Record Nr.	UNINA9910480566603321
	Autore	Ebbinghaus Heinz-Dieter
	Titolo	Numbers [[electronic resource] /] / by Heinz-Dieter Ebbinghaus, Hans Hermes, Friedrich Hirzebruch, Max Koecher, Klaus Mainzer, Jürgen Neukirch, Alexander Prestel, Reinhold Remmert ; edited by John H. Ewing
	Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 1991
	ISBN	1-4612-1005-4
	Edizione	[1st ed. 1991.]
	Descrizione fisica	1 online resource (XVIII, 398 p.)
	Collana	Readings in Mathematics ; ; 123
	Disciplina	512/.7
	Soggetti	Number theory
		Number Theory
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Translation of: Zahlen.
		"With 24 illustrations."
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	A. From the Natural Numbers, to the Complex Numbers, to the p-adics 1. Natural Numbers, Integers, and Rational Numbers 2. Real Numbers 3. Complex Numbers 4. The Fundamental Theorem of Algebr 5. What is ?? 6. The p-Adic Numbers B. Real Division Algebras Repertory. Basic Concepts from the Theory of Algebras 7. Hamilton's Quaternions 8. The Isomorphism Theorems of FROBENIUS, HOPF and GELFAND-MAZUR 9. CAYLEY Numbers or Alternative Division Algebras 10. Composition Algebras. HURWITZ's Theorem-Vector-Product Algebras 11. Division Algebras and Topology C. Infinitesimals, Games, and Sets 12. Nonsiandard Analysis 13. Numbers and Games 14. Set Theory and Mathematics Name Index Portraits of Famous Mathematicians.
	Sommario/riassunto	A book about numbers sounds rather dull. This one is not. Instead it is a lively story about one thread of mathematics-the concept of "number" - told by eight authors and organized into a historical narrative that leads the reader from ancient Egypt to the late twentieth century. It is a story that begins with some of the simplest ideas of mathematics and ends with some of the most complex. It is a story that mathematicians, both amateur and professional, ought to know. Why write about

numbers? Mathematicians have always found it diffi- cult to develop
broad perspective about their subject. While we each view our specialty
as having roots in the past, and sometimes having connec- tions to
other specialties in the present, we seldom see the panorama of
mathematical development over thousands of years. Numbers attempts
to give that broad perspective, from hieroglyphs to K-theory, from
 Dedekind cuts to nonstandard analysis.