1.	Record Nr.	UNINA9910816954903321
	Autore	Cohen Joel S
	Titolo	Computer algebra and symbolic computation : elementary algorithms / / / by Joel S. Cohen
	Pubbl/distr/stampa	Boca Raton, FL : , : A K Peters/CRC Press, an imprint of Taylor and Francis, , 2002
	ISBN	0-429-06475-6 1-4398-6369-5
	Edizione	[First edition.]
	Descrizione fisica	1 online resource (341 p.)
	Disciplina	512
	Soggetti	Algebra - Data processing
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references (p. 307-315) and index.
	Nota di contenuto	chapter 1 Introduction to Computer Algebra chapter 2 Elementary Concepts of Computer Algebra chapter 3 Recursive Structure of Mathematical Expressions chapter 4 Elementary Mathematical Algorithms chapter 5 Recursive Algorithms chapter 6 Structure of Polynomials and Rational Expressions chapter 7 Exponential and Trigonometric Transformations.
	Sommario/riassunto	This book provides a systematic approach for the algorithmic formulation and implementation of mathematical operations in computer algebra programming languages. The viewpoint is that mathematical expressions, represented by expression trees, are the data objects of computer algebra programs, and by using a few primitive operations that analyze and construct expressions, we can implement many elementary operations from algebra, trigonometry, calculus, and differential equations. With a minimum of prerequisites this book is accessible to and useful for students of mathematics, computer science, and other technical fields. The book contains a CD with the full, searchable text and implementations of all algorithms in the Maple, Mathematica, and MuPad programming languages.