Record Nr.	UNINA9910789694403321
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Titolo	Journey through Mathematics [[electronic resource]] : Creative Episodes in Its History / / by Enrique A. González-Velasco
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2011
ISBN	0-387-92154-0
Edizione	[1st ed. 2011.]
Descrizione fisica	1 online resource (478 p.)
Disciplina	510 510.9
Soggetti	Mathematics
	History
	History of Mathematical Sciences
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	Preface 1 Trigonometry 2 Logarithms 3 Complex Numbers 4 Infinite Series 5 The Calculus 6 Convergence Bibliography Index.
Sommario/riassunto	This book offers an accessible and in-depth look at some of the most important episodes of two thousand years of mathematical history. Beginning with trigonometry and moving on through logarithms, complex numbers, infinite series, and calculus, this book profiles some of the lesser known but crucial contributors to modern day mathematics. It is unique in its use of primary sources as well as its accessibility; a knowledge of first-year calculus is the only prerequisite. But undergraduate and graduate students alike will appreciate this glimpse into the fascinating process of mathematical creation. The history of math is an intercontinental journey, and this book showcases brilliant mathematicians from Greece, Egypt, and India, as well as Europe and the Islamic world. Several of the primary sources have never before been translated into English. Their interpretation is thorough and readable, and offers an excellent background for teachers of high school mathematics as well as anyone interested in the history of math. Features of this book include: -Dozens of diagrams and photographs of

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original sources -Original translation of Rafael Bombelli's contribution to the study of complex numbers -A detailed history of the calculus as it was being written, and a new analysis of Leibniz's writings on the subject -The first English translation of the first published proof of the fundamental theorem of Calculus, given by James Gregory in 1668 -An accessible discussion of James Gregory's work, including his invention of Taylor series forty years before Taylor -An original English translation of extended portions of works by José Anastácio da Cunha, a little known but important contributor to the convergence of series and the differential calculus, some of whose ideas were later attributed to Cauchy.