

1. Record Nr.	UNINA9910338257203321
Autore	Sesiano Jacques
Titolo	Magic Squares [[electronic resource]] : Their History and Construction from Ancient Times to AD 1600 // by Jacques Sesiano
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-17993-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (321 pages)
Collana	Sources and Studies in the History of Mathematics and Physical Sciences, , 2196-8810
Disciplina	511.64
Soggetti	Mathematics History History of Mathematical Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	I. Introduction -- II. Ordinary magic squares -- A. Squares of odd orders -- B. Squares of evenly-even orders -- C. Squares of evenly-odd orders -- III. Composite magic squares -- A. Equal subshares displaying different sums -- B. Equal subshares displaying equal sums -- C. Division into unequal parts -- IV. Bordered magic squares -- A. Squares of odd orders -- B. Squares of evenly-even orders -- C. Squares of evenly-odd orders -- V. Bordered squares with separation by parity -- 1. The main square and its parts -- 2. Filling the inner square -- 3. Filling the remainder of the square by trial and error -- A. Methodical filling of the oblique square -- B. Methodical placing of the even numbers -- C. Particular case of the order 5 -- VI. Magic squares with non-consecutive numbers -- A. Squares of odd orders -- B. Squares of evenly-even orders -- C. Squares of evenly-odd orders -- VII. 1. Literal squares -- 2. Squares with one empty cell -- 3. Squares with divided cells -- 4. Magic triangles -- 5. Magic crosses -- 6. Magic circles -- 7. Magic rectangles -- 8. Magic cubes -- Appendices -- Bibliography -- Index.
Sommario/riassunto	The science of magic squares witnessed an important development in the Islamic world during the Middle Ages, with a great variety of construction methods being created and ameliorated. The initial step

was the translation, in the ninth century, of an anonymous Greek text containing the description of certain highly developed arrangements, no doubt the culmination of ancient research on magic squares.
