1. Record Nr. UNINA9910153615103321 Autore **Beery Janet** Titolo Thomas Harriot's Doctrine of Triangular Numbers: the 'Magisteria Magna' [[electronic resource] /] / Janet Beery, Jacqueline Stedall Zuerich, Switzerland, : European Mathematical Society Publishing Pubbl/distr/stampa House, 2008 **ISBN** 3-03719-559-2 Descrizione fisica 1 online resource (144 pages) Collana Heritage of European Mathematics (HEM);, 2523-5214 Classificazione 01-xx Soggetti History of mathematics History and biography Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia

Sommario/riassunto

Thomas Harriot (c.1560-1621) was a mathematician and astronomer. known not only for his work in algebra and geometry, but also for his wide-ranging interests in ballistics, navigation, and optics (he discovered the sine law of refraction now known as Snell's law). Βv about 1614, Harriot had developed finite difference interpolation methods for navigational tables. In 1618 (or slightly later) he composed a treatise entitled 'De numeris triangularibus et inde de progressionibus arithmeticis, Magisteria magna', in which he derived symbolic interpolation formulae and showed how to use them. This treatise was never published and is here reproduced for the first time. Commentary has been added to help the reader to follow Harriot's beautiful but almost completely nonverbal presentation. The introductory essay preceding the treatise gives an overview of the contents of the 'Magisteria' and describes its influence on Harriot's contemporaries and successors over the next sixty years. Harriot's method was not superseded until Newton, apparently independently, made a similar discovery in the 1660s. The ideas in the 'Magisteria' were spread primarily through personal communication and unpublished manuscripts, and so, quite apart from their intrinsic mathematical interest, their survival in England during the seventeenth century provides an important case study in the dissemination of

mathematics through informal networks of friends and acquaintances.