

1. Record Nr.	UNINA9910974932203321
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Titolo	Heavenly mathematics : the forgotten art of spherical trigonometry // Glen Van Brummelen
Pubbl/distr/stampa	Princeton, : Princeton University Press, c2013
ISBN	9781299051256 1299051251 9781400844807 1400844800
Edizione	[Course Book]
Descrizione fisica	1 online resource (217 p.)
Classificazione	SN 100
Disciplina	516.24
Soggetti	Spherical trigonometry Trigonometry Trigonometria Trigonometria esfèrica Història de la matemàtica Llibres electrònics
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	Heavenly mathematics -- Exploring the sphere -- The ancient approach -- The medieval approach -- The modern approach: right-angled triangles -- The modern approach: oblique triangles -- Areas, angles, and polyhedra -- Stereographic projection -- Navigation.
Sommario/riassunto	Heavenly Mathematics traces the rich history of spherical trigonometry, revealing how the cultures of classical Greece, medieval Islam, and the modern West used this forgotten art to chart the heavens and the Earth. Once at the heart of astronomy and ocean-going navigation for two millennia, the discipline was also a mainstay of mathematics education for centuries and taught widely until the 1950's. Glen Van Brummelen explores this exquisite branch of mathematics and its role in ancient astronomy, geography, and cartography; Islamic religious rituals; celestial navigation; polyhedra; stereographic projection; and more. He conveys the sheer beauty of spherical trigonometry, providing readers

with a new appreciation of its elegant proofs and often surprising conclusions. Heavenly Mathematics is illustrated throughout with stunning historical images and informative drawings and diagrams. This unique compendium also features easy-to-use appendixes as well as exercises that originally appeared in textbooks from the eighteenth to the early twentieth centuries.
