

Spherical trigonometry was at the heart of astronomy and ocean-going navigation for two millennia. It is illustrated throughout with stunning historical images and informative drawings and diagrams An unparalleled illustrated history of spherical trigonometry from antiquity to today. cm The discipline was a mainstay of mathematics education for ce The book conveys the sheer beauty of spherical trigonometry, providing readers with a new appreciation of its elegant proofs and often surprising conclusions. Once at the heart of astronomy and ocean Preface viiHeavenly MathematicsExploring the SphereThe Ancient ApproachThe Medieval ApproachThe Modern Approach: Right Angled TrianglesThe Modern Approach: Oblique Triangles Areas, Angles, and Polyhedra Stereographic Projection Navigating by the Stars Appendix A. Ptolemy's Determination of the Sun's Position Appendix B. Textbooks An unparalleled illustrated history of spherical trigonometry from antiquity to today 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. The discipline was a mainstay of mathematics education for ce, • Heavenly Mathematics traces the rich history of spherical trigonometry, revealing how the cultures of classical Greece, medieval Islam, and the modern West Heavenly mathematics: the forgotten art of spherical trigonometry Glen Van Brummelen. Once at the heart of astronomy and ocean Try An unparalleled illustrated history of spherical trigonometry from antiquity to today. Once at the heart of astronomy and ocean-going navigation for two millennia, the discipline was also a mainstay of An unparalleled illustrated history of spherical trigonometry from antiquity to today 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 Appendix CFurther Reading. ISBN In Chapter 4, Glen Van Brummelen discusses "the medieval approach," meaning simplifications of the ancient Greek theorem of Menelaus that were developed in greater Heavenly mathematics Exploring the sphereThe ancient approachThe medieval approachThe modern approach: right-angled trianglesThe modern approach: oblique trianglesAreas, angles, and polyhedraStereographic projectionNavigation Paperback. Includes bibliographical references and index. Using Cesàro's Heavenly Mathematics traces the rich history of spherical trigonometry, revealing how the cultures of classical Greece, medieval Islam, and the modern West used this Read & Download PDF Heavenly Mathematics: The Forgotten Art of Spherical Trigonometry by Glen Van Brummelen, Update the latest version with high-quality. p. 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. In Donnay's and Van Brummelen's monographs on spherical trigonometry, the Cesàro method is revitalized to derive various results on spherical triangles. 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. Heavenly Mathematics traces the rich history of spherical trigonometry, revealing how Spherical trigonometry was at the heart of astronomy and ocean-going navigation for two millennia.