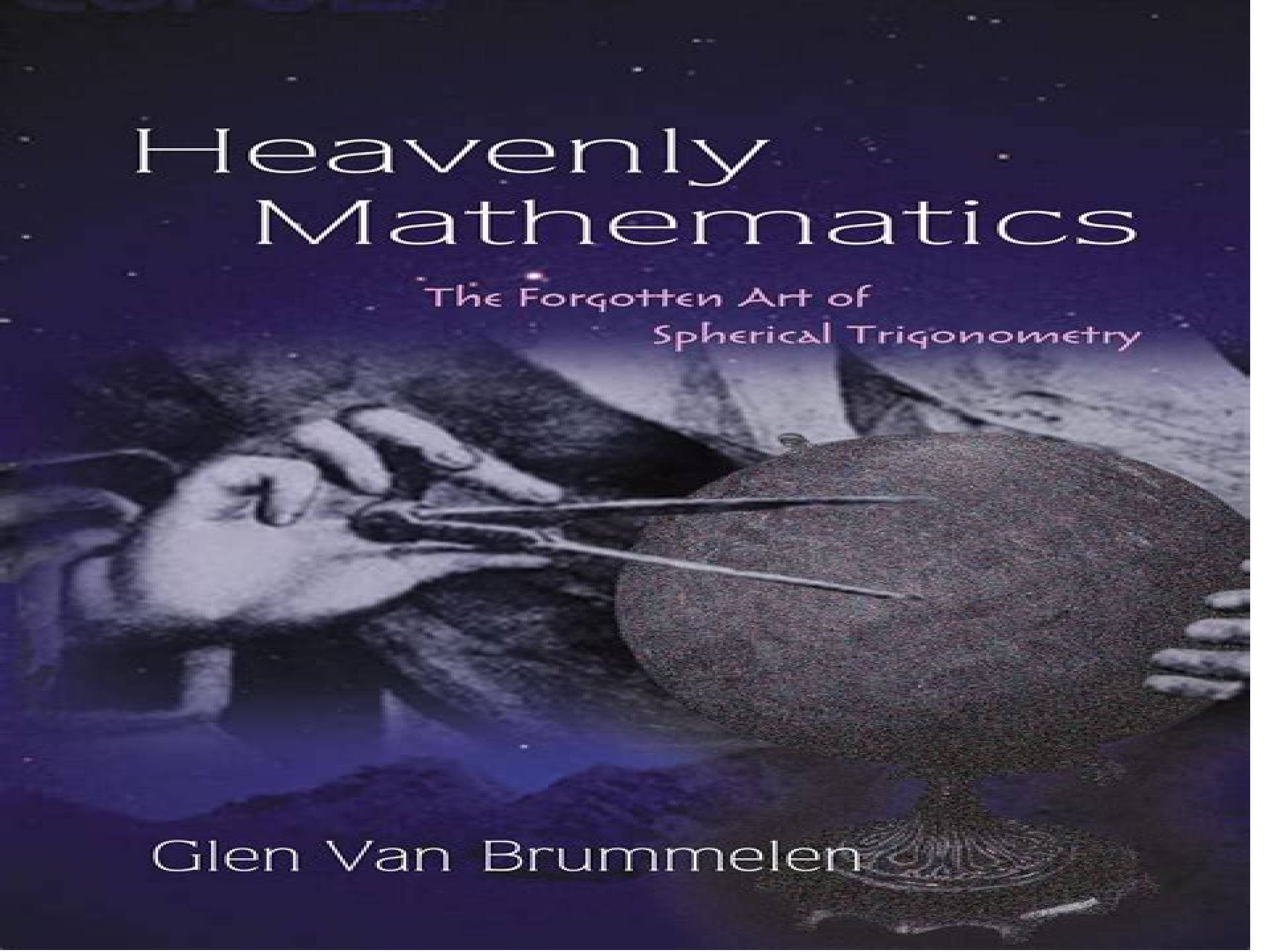


Heavenly Mathematics

The Forgotten Art of
Spherical Trigonometry

Glen Van Brummelen



Heavenly Mathematics The Forgotten Art Of Spherical Trigonometry

Alfred H. Welsh



Heavenly Mathematics The Forgotten Art Of Spherical Trigonometry:

Heavenly Mathematics Glen Van Brummelen, 2013 Spherical trigonometry was at the heart of astronomy and ocean going navigation for two millennia The discipline was a mainstay of mathematics education for centuries and it was a standard subject in high schools until the 1950s Today however it is rarely taught *Heavenly Mathematics* traces the rich history of this forgotten art revealing how the cultures of classical Greece medieval Islam and the modern West used spherical trigonometry to chart the heavens and the Earth 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 for its elegant proofs and often surprising conclusions *Heavenly Mathematics* is illustrated throughout with stunning historical images and informative drawings and diagrams that have been used to teach the subject in the past This unique compendium also features easy to use appendixes as well as exercises at the end of each chapter that originally appeared in textbooks from the eighteenth to the early twentieth centuries Jacket

Trigonometry Glen Van Brummelen, 2020 Rooted in ancient astronomy trigonometry is mathematics powerful toolkit for scientific measurement It has been at the heart of the study of infinity complex and imaginary numbers and the shape of the space itself Our experience of the universe has been made possible and deeply challenged by this surprisingly deep and fruitful subject *Heavenly Mathematics* Glen Van

Brummelen, 2017-04-04 Spherical trigonometry was at the heart of astronomy and ocean going navigation for two millennia The discipline was a mainstay of mathematics education for centuries and it was a standard subject in high schools until the 1950s Today however it is rarely taught *Heavenly Mathematics* traces the rich history of this forgotten art revealing how the cultures of classical Greece medieval Islam and the modern West used spherical trigonometry to chart the heavens and the Earth Jacket

Surveys in Geometry I Athanase Papadopoulos, 2022-02-18 The volume consists of a set of surveys on geometry in the broad sense The goal is to present a certain number of research topics in a non technical and appealing manner The topics surveyed include spherical geometry the geometry of finite dimensional normed spaces metric geometry Bishop Gromov type inequalities in Gromov hyperbolic spaces convexity theory and inequalities involving volumes and mixed volumes of convex bodies 4 dimensional topology Teichmüller spaces and mapping class groups actions translation surfaces and their dynamics and complex higher dimensional geometry Several chapters are based on lectures given by their authors to middle advanced level students and young researchers The whole book is intended to be an introduction to current research trends in geometry

Circles, Spheres and Spherical Geometry Hiroshi Maehara, Horst Martini, 2024-08-09 This textbook focuses on the geometry of circles spheres and spherical geometry Various classic themes are used as introductory and motivating topics The book begins very simply for the reader in the first chapter discussing the notions of inversion and stereographic projection Here various classical topics and theorems such as Steiner cycles inversion Soddy's hexlet

stereographic projection and Poncelet's porism are discussed. The book then delves into Bend formulas and the relation of radii of circles focusing on Steiner circles mutually tangent four circles in the plane and other related notions. Next some fundamental concepts of graph theory are explained. The book then proceeds to explore orthogonal cycle representation of quadrangulations giving detailed discussions of the Brightwell-Scheinerman theorem, an extension of the Koebe-Andreev-Thurston theorem, Newton's 13 balls problem, Casey's theorem, an extension of Ptolemy's theorem and its generalizations. The remainder of the book is devoted to spherical geometry including a chapter focusing on geometric probability on the sphere. The book also contains new results of the authors and insightful notes on the existing literature bringing the reader closer to the research front. Each chapter concludes with related exercises of varying levels of difficulty. Solutions to selected exercises are provided. This book is suitable to be used as textbook for a geometry course or alternatively as basis for a seminar for both advanced undergraduate and graduate students alike. *Spherical Geometry and Its Applications* Marshall

Whittlesey, 2019-11-14 *Spherical Geometry and Its Applications* introduces spherical geometry and its practical applications in a mathematically rigorous form. The text can serve as a course in spherical geometry for mathematics majors. Readers from various academic backgrounds can comprehend various approaches to the subject. The book introduces an axiomatic system for spherical geometry and uses it to prove the main theorems of the subject. It also provides an alternate approach using quaternions. The author illustrates how a traditional axiomatic system for plane geometry can be modified to produce a different geometric world but a geometric world that is no less real than the geometric world of the plane. Features: A well rounded introduction to spherical geometry. Provides several proofs of some theorems to appeal to larger audiences. Presents principal applications: the study of the surface of the earth, the study of stars and planets in the sky, the study of three and four dimensional polyhedra, mappings of the sphere and crystallography. Many problems are based on propositions from the ancient text *Sphaerica* of Menelaus. **Episodes in the Mathematics of Medieval Islam** J.L. Berggren, 2017-01-18

This book presents an account of selected topics from key mathematical works of medieval Islam based on the Arabic texts themselves. Many of these works had a great influence on mathematics in Western Europe. Topics covered in the first edition include arithmetic, algebra, geometry, trigonometry and numerical approximation; this second edition adds number theory and combinatorics. Additionally, the author has included selections from the western regions of medieval Islam, both North Africa and Spain. The author puts the works into their historical context and includes numerous examples of how mathematics interacted with Islamic society. **Zetetics and the Art of Mathematical Enquiry** Peter Merrotsy, 2023-03-28

Mathematics has a rich history from cultures around the world which can extend and enrich the appreciation and learning of mathematical concepts. This book provides inspiration for mathematics educators by exploring the development of mathematical concepts from historical and cultural perspectives. It will also be of interest to general readers with an interest in mathematics. Each chapter uses original historical material to introduce a mathematical concept that is then explored.

through new and unusual perspectives The book presents several new mathematical discoveries and inventions and offers a re interpretation of traditional approaches to a range of mathematical problems doing so in a rigorous way Topics discussed here include numeracy the abacus Mesopotamian mathematics public key cryptography Pythagoras theorem the holistic nature of trigonometry and an introduction to integral calculus among many others Throughout is reflected the author s enthusiastic style of teaching and his entertaining approach to mathematics serving to highlight active engagement with significant mathematical problems and hands on modelling to build deep understanding of the concepts

Research in History and Philosophy of Mathematics Maria Zack,Dirk Schlimm,2017-12-18 This volume contains fourteen papers that were presented at the 2016 Annual Meeting of the Canadian Society for History and Philosophy of Mathematics La Soci t Canadienne d Histoire et de Philosophie des Math matiques held at the University of Calgary in Alberta Canada In addition to showcasing rigorously reviewed modern scholarship on an interesting variety of topics in the history and philosophy of mathematics this meeting also honored the life and work of the logician and philosopher of mathematics Aldo Antonelli 1962 2015 The first four papers in this book are part of that remembrance and have a philosophical focus Included in these are a discussion of Bolzano s objections to Kant s philosophy of mathematics and an examination of the influence of rhetorical and poetic aesthetics on the development of symbols in the 16th and 17th Centuries The remaining papers deal with the history of mathematics and cover such subjects as Early schemes for polar ordinates in the work of L H pital based on lessons given to him by Bernoulli A method devised by Euler for determining if a number is a sum of two squares Playfair s Axiom and what it reveals about the history of 19th Century mathematics education The modern library classification system for mathematical subjects An exploration of various examples of sundials throughout Paris Written by leading scholars in the field these papers are accessible to not only mathematicians and students of the history and philosophy of mathematics but also anyone with a general interest in mathematics

Geometry: The Line and the Circle Maureen T. Carroll,Elyn Rykken,2018-12-20 Geometry The Line and the Circle is an undergraduate text with a strong narrative that is written at the appropriate level of rigor for an upper level survey or axiomatic course in geometry Starting with Euclid s Elements the book connects topics in Euclidean and non Euclidean geometry in an intentional and meaningful way with historical context The line and the circle are the principal characters driving the narrative In every geometry considered which include spherical hyperbolic and taxicab as well as finite affine and projective geometries these two objects are analyzed and highlighted Along the way the reader contemplates fundamental questions such as What is a straight line What does parallel mean What is distance What is area There is a strong focus on axiomatic structures throughout the text While Euclid is a constant inspiration and the Elements is repeatedly revisited with substantial coverage of Books I II III IV and VI non Euclidean geometries are introduced very early to give the reader perspective on questions of axiomatics Rounding out the thorough coverage of axiomatics are concluding chapters on transformations and constructibility The book is compulsively readable with great

attention paid to the historical narrative and hundreds of attractive problems Science and Praxis Pietro Daniel Omodeo, Senthil Babu D., Claus Zittel, 2025-07-23 This volume addresses questions in the history of science and allied disciplines about the inseparable relation between science and politics Cases presented in the book shed light on the political conditions orientation and the consequences of science Together they articulate frames of inquiry in historical political epistemology Situated in the early modern historical context the volume draws attention to different political factors which shaped scientific practices and their ideologies Given the contested historiographies of the scientific revolution the critical approach of this volume offers an invitation for further historical inquiries on the practices and politics of science **The History of Mathematics: A Source-Based Approach** June Barrow-Green, Jeremy Gray, Robin Wilson, 2021-12-17 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the first volume of the two volume set takes readers from the beginning of counting in prehistory to 1600 and the threshold of the discovery of calculus It is notable for the extensive engagement with original primary and secondary source material The coverage is worldwide and embraces developments including education in Egypt Mesopotamia Greece China India the Islamic world and Europe The emphasis on astronomy and its historical relationship to mathematics is new and the presentation of every topic is informed by the most recent scholarship in the field The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics The authors each among the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world **Math through the Ages: A Gentle History for Teachers and Others Expanded Second Edition** William P. Berlinghoff, Fernando Q. Gouvêa, 2021-04-29 Where did math come from Who thought up all those algebra symbols and why What is the story behind negative numbers the metric system quadratic equations sine and cosine logs The 30 independent historical sketches in Math through the Ages answer these questions and many others in an informal easygoing style that is accessible to teachers students and anyone who is curious about the history of mathematical ideas Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history The 30 short stories are preceded by a 58 page bird s eye overview of the entire panorama of mathematical history a whirlwind tour of the most important people events and trends that shaped the mathematics we know today What to Read Next and reading suggestions after each sketch provide starting points for readers who want to learn more This book is ideal for a broad spectrum of audiences including students in history of mathematics courses at the late high school or early college level pre service and in service teachers and anyone who just wants to know a little more about the origins of mathematics The Doctrine of Triangles Glen Van Brummelen, 2025-06-17 An interdisciplinary history of trigonometry from the mid sixteenth century to the

early twentieth century The Doctrine of Triangles offers an interdisciplinary history of trigonometry that spans four centuries starting in 1550 and concluding in the 1900s Glen Van Brummelen tells the story of trigonometry as it evolved from an instrument for understanding the heavens to a practical tool used in fields such as surveying and navigation In Europe China and America trigonometry aided and was itself transformed by concurrent mathematical revolutions as well as the rise of science and technology Following its uses in mid sixteenth century Europe as the foot of the ladder to the stars and the mathematical helpmate of astronomy trigonometry became a ubiquitous tool for modeling various phenomena including animal populations and sound waves In the late sixteenth century trigonometry increasingly entered the physical world through the practical disciplines and its societal reach expanded with the invention of logarithms Calculus shifted mathematical reasoning from geometric to algebraic patterns of thought and trigonometry's participation in this new mathematical analysis grew encouraging such innovations as complex numbers and non Euclidean geometry Meanwhile in China trigonometry was evolving rapidly too sometimes merging with indigenous forms of knowledge and with Western discoveries In the nineteenth century trigonometry became even more integral to science and industry as a fundamental part of the science and engineering toolbox and a staple subject in high school classrooms A masterful combination of scholarly rigor and compelling narrative The Doctrine of Triangles brings trigonometry's rich historical past full circle into the modern era

Sourcebook in the Mathematics of Medieval Europe and North Africa Victor J. Katz, Menso Folkerts, Barnabas Hughes, Roi Wagner, J. Lennart Berggren, 2016-10-18 Medieval Europe was a meeting place for the Christian Jewish and Islamic civilizations and the fertile intellectual exchange of these cultures can be seen in the mathematical developments of the time This sourcebook presents original Latin Hebrew and Arabic sources of medieval mathematics and shows their cross cultural influences Most of the Hebrew and Arabic sources appear here in translation for the first time Readers will discover key mathematical revelations foundational texts and sophisticated writings by Latin Hebrew and Arabic speaking mathematicians including Abner of Burgos's elegant arguments proving results on the conchoid a curve previously unknown in medieval Europe Levi ben Gershon's use of mathematical induction in combinatorial proofs Al Mu'taman Ibn Hammad's extensive survey of mathematics which included proofs of Heron's Theorem and Ceva's Theorem and Muhy al-Din al-Maghribi's interesting proof of Euclid's parallel postulate The book includes a general introduction section introductions footnotes and references The Sourcebook in the Mathematics of Medieval Europe and North Africa will be indispensable to anyone seeking out the important historical sources of premodern mathematics

[Mathematics for Engineers and Scientists](#) Vinh Phu Nguyen, 2025-01-28 A majority of mathematics textbooks are written in a rigorous concise dry and boring way On the other hand there exist excellent engaging fun to read popular math books The problem with these popular books is the lack of mathematics itself This book is a blend of both It provides a mathematics book to read to engage with and to understand the whys the story behind the theorems Written by an engineer not a mathematician who struggled to learn math in high school and in university this book

explains in an informal voice the mathematics that future and current engineering and science students need to acquire If we learn math to understand it to enjoy it not to pass a test or an exam we all learn math better and there is no such a thing that we call math phobia With a slow pace and this book everyone can learn math and use it as the author did at the age of 40 and with a family to take care of

Re-entry Systems Erwin Mooij, 2024-12-25 This book explains and describes re entry systems for both the Earth and other planets It provides sufficient information for readers to perform entry mission analysis for different bodies in the Solar System Not only does it discuss re entry flight mechanics but also addresses relevant subsystems and fields enabling readers to put the information into perspective The book begins with a complete description of planetary environments including atmosphere gravity fields and the shape of the primary body After a detailed discussion of planar flight mechanics it then moves on to discuss guidance navigation and control entry descent and landing systems as well as thermal protection systems It uses examples throughout the text enabling the theory to be linked to practical applications Ideal for those wanting an updated thorough discussion of re entry systems this book is suitable for students and researchers

Divided Spheres Edward S. Popko, Christopher J. Kitrick, 2021-08-18 Praise for the previous edition Dr Popko s elegant new book extends both the science and the art of spherical modeling to include Computer Aided Design and applications which I would never have imagined when I started down this fascinating and rewarding path His lovely illustrations bring the subject to life for all readers including those who are not drawn to the mathematics This book demonstrates the scope beauty and utility of an art and science with roots in antiquity Anyone with an interest in the geometry of spheres whether a professional engineer an architect or product designer a student a teacher or simply someone curious about the spectrum of topics to be found in this book will find it helpful and rewarding Magnus Wenninger Benedictine Monk and Polyhedral Modeler Ed Popko s comprehensive survey of the history literature geometric and mathematical properties of the sphere is the definitive work on the subject His masterful and thorough investigation of every aspect is covered with sensitivity and intelligence This book should be in the library of anyone interested in the orderly subdivision of the sphere Shoji Sadao Architect Cartographer and lifelong business partner of Buckminster Fuller Edward Popko s Divided Spheres is a thesaurus must to those whose academic interest in the world of geometry looks to greater coverage of synonyms and antonyms of this beautiful shape we call a sphere The late Buckminster Fuller might well place this manuscript as an all reference for illumination to one of nature s most perfect inventions Thomas T K Zung Senior Partner Buckminster Fuller Sadao Zung Architects This first edition of this well illustrated book presented a thorough introduction to the mathematics of Buckminster Fuller s invention of the geodesic dome which paved the way for a flood of practical applications as diverse as weather forecasting and fish farms The author explained the principles of spherical design and the three classic methods of subdivision based on geometric solids polyhedra This thoroughly edited new edition does all that while also introducing new techniques that extend the class concept by relaxing the triangulation constraint to

develop two new forms of optimized hexagonal tessellations The objective is to generate spherical grids where all edge or arc lengths or overlap ratios are equal New to the Second Edition New Foreword by Joseph Clinton lifelong Buckminster Fuller collaborator A new chapter by Chris Kitrick on the mathematical techniques for developing optimal single edge hexagonal tessellations of varying density with the smallest edge possible for a particular topology suggesting ways of comparing their levels of optimization An expanded history of the evolution of spherical subdivision New applications of spherical design in science product design architecture and entertainment New geodesic algorithms for grid optimization New full color spherical illustrations created using DisplaySphere to aid readers in visualizing and comparing the various tessellations presented in the book Updated Bibliography with references to the most recent advancements in spherical subdivision methods

Science Education in the Early Roman Empire Richard Carrier, 2016-10-01 Throughout the Roman Empire Cities held public speeches and lectures had libraries and teachers and professors in the sciences and the humanities some subsidized by the state There even existed something equivalent to universities and medical and engineering schools What were they like What did they teach Who got to attend them In the first treatment of this subject ever published Dr Richard Carrier answers all these questions and more describing the entire education system of the early Roman Empire with a unique emphasis on the quality and quantity of its science content He also compares pagan attitudes toward the Roman system of education with the very different attitudes of ancient Jews and Christians finding stark contrasts that would set the stage for the coming Dark Ages

Time and Ancient Medicine Kassandra J. Miller, 2023-08-08 Time and Ancient Medicine is the first monograph to explore on the one hand how the introduction of new timekeeping technologies namely sundials and water clocks affected the practice rhetoric and philosophy of ancient medicine and on the other hand how medical timekeeping practices affected engagement with time elsewhere in society The study seeks first to offer a chronological narrative of how timekeeping technologies and medical practices evolved and influenced one another in ancient Greece and Rome with consideration of relevant Pharaonic Egyptian and Assyro Babylonian precedents Kassandra J Miller turns to a series of case studies drawn from the Roman Imperial period to investigate thematic questions asking how debates over medical timekeeping interacted with debates over proper scientific methodology the status of medicine as a formal art and the relationships between medicine and other disciplines like mathematics astronomy and astrology Throughout this study places epigraphic artistic and other material evidence for hourly timekeeping in dialogue with selections from medical literature some of which has not previously been published in modern language translation Ultimately this study reveals that time and timekeeping played fundamental roles in ancient medical debates and practices and challenges the traditional narrative that the social history of clock time only begins with the invention of the mechanical clock in the Medieval period It offers new insights into the specific ways that physicians of the ancient Mediterranean engaged with their evolving temporal landscapes and raises questions about the relationships between time and medicine in

the modern day

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