

Quadrivium The Four Classical Liberal Arts Of Number Geometry Music Cosmology Wooden Books

Galileo described the universe as a large book written in the language of mathematics, which can only be read by those with knowledge of its characters triangles, circles and other geometrical figures. In *How the World Is Made* John Michell explains how ancient peoples who grasped the timeless principles of sacred geometry were able to create flourishing societies. His more than 300 colour illustrations reveal the secret code within these geometrical figures and how they express the spiritual meanings in the key numbers of 1 through 12. He identifies the various regular shapes and shows their constructions; their natural symbolism; their meetings, matings and ways of breeding; and their functions within the universal order. In the process, Michell helps us see the world in a new light. Disparate shapes and their corresponding numbers are woven together, resolving themselves into an all-inclusive world image that pattern in the heavens, as Socrates called it, which anyone can find and establish within themselves. An illustrated guide to harmonics--the sacred geometry principles that underlie the natural world--and its practical applications • Demonstrates how the vesica piscis is a matrix from which ideas and forms emanate, connecting cosmic time cycles, measures of space, and musical tones • Provides harmonic analyses of ancient sculpture, architecture, the solar system, the Earth-Moon relationship, and the structure of water and waves • Explains how to apply sacred geometry to create building floor plans, pottery figures, gardens, and sacred ceremonial spaces We are in the midst of a revival of an ancient way of looking at the world--an approach that enabled great civilizations of the past to bring forth inventions of great beauty and power. This school of thought--harmonics--envisioned the natural world and the solar system as an interlocking matrix of harmonious numbers, perfectly woven into the creative fabric of life and the surrounding universe. Exploring the art and science of harmonics, John Oscar Lieben shows how to create harmonious forms using the ancient tools of number, geometry, and musical tone--an approach that resonates with nature's own ways of creation. He demonstrates many practical applications that result from the study of harmonics, providing analyses of ancient sculpture and architecture, as well as original examples of building floor plans, pottery figures based on planetary proportions, gardens based on harmonic principles, and ceremonial spaces that honor cosmic harmonies and sacred geometric relationships. Showing how harmonics can also be applied to the mysteries of time and space, the author demonstrates how the vesica piscis and many other variations of the vesica shape reveal numerical synchronicities and correspondences that connect cosmic time cycles, measures of space, and musical tones. The author applies harmonics and the "vesica construction" matrix to illustrate many of nature's wonders, including the Earth-Moon relationship, the interactions of the Golden Number and the musical scale, and how the Flower of Life symbol connects the universal field with the pattern of raindrops falling on a pond. Offering an approach to sacred geometry that pairs the mystical with the practical, the cosmic with the earthly, the author reveals how the art and science of harmonics should be required study for both the artist and the seeker of eternal truths as well as the scientist who seeks an entrance into the sacred foundations of nature.

Initiates the reader into some of the key concepts and practices of this extraordinary field of study.

How music has influenced mathematics, physics, and astronomy from ancient Greece to the twentieth century Music is filled with mathematical elements. The works of Bach are often said to possess a math-like logic, and Arnold Schoenberg, Iannis Xenakis, and Karlheinz Stockhausen wrote music explicitly based on mathematical principles. Yet Eli Maor argues that it is music that has had the greater influence on mathematics, not the other way around. Starting with Pythagoras, proceeding through Schoenberg, and bringing the story up to the present with contemporary string theory, *Music by the Numbers* tells a fascinating story of composers, scientists, inventors, and eccentrics who have played a role in the age-old relationship between music, mathematics, and the physical sciences. Weaving compelling stories of historical episodes with Maor's personal reflections as a mathematician and lover of classical music, this book will delight anyone who loves math and music.

The trivium refers to the three liberal arts considered in classical Greece to be the pillars of critical thought: grammar, logic, and rhetoric. Following on the success of *Quadrivium* and *Sciencia*, *Trivium* gathers six *Wooden Books* titles together into a beautiful six-color package that presents ancient wisdom in an accessible way. *Trivium* will include the books *Euphonics*, *Grammar*, *Logic*, *Rhetoric*, *Poetic Meter and Form*, and *Ethics*.

Why is it that we are so drawn to and enticed by sacred geometry? They start with simple mathematical shapes, that combine to create elaborate illustrations of such beauty and elegance that we marvel at them. Beliefs, religious, spiritual and cultural, have been historically attached to them. The specific design and creation of each individual sacred geometric pattern is thought, among many cultures, not only to demonstrate an understanding of specific universal concepts, but to hold powers of mystical possibilities. The aim of this book is to provide an understanding of the history, creation and meanings of sacred geometry for those who are new to the subject, and to open an insight into the beliefs placed upon them with the hope that it will inspire the reader's interest and imagination and increase their enthusiasm. Enjoy learning how such simple shapes can evolve into inspiring and powerful patterns that weave through the fabric of our entire universe and reality.

Looks at the relationship between the five Platonic and thirteen Archimedean solids.

An introduction to geometry without measurements.

Why phonics and grammar are not trivial. Why have our political discussions in the United States become so ugly and pointless? Why are we suffering from such a breakdown in civility? In *Not Trivial: How Studying the Traditional Liberal Arts Can Set You Free*, Laurie Endicott Thomas explains that the problem boils down to education. The word civility originally meant training in the liberal arts. The classical liberal arts were a set of seven disciplines that were developed largely in ancient Athens to promote productive political discussions within Athenian democracy. They included three verbal arts (the trivium): grammar, logic, and rhetoric. They also included four arts of number, space, and time (the quadrivium): mathematics, geometry, music, and astronomy. These arts helped students learn to think rationally and to express themselves persuasively. The ancient Romans called these studies the liberal arts because they were considered appropriate for freeborn men, as opposed to slaves. Slaves were taught only the servile and mechanical arts, to make them more productive as workers. During the Renaissance, the classical liberal arts curriculum was supplemented by the humanities, including history, philosophy, literature, and art. Like the liberal arts, the humanities were intended to promote productive and even pleasant discussions among political decision-makers. Today, the sciences would have to be added to that curriculum. Thomas explains that the problems in our political system start in first grade. Our teachers are being trained and often forced to use a method of reading instruction that does not work. As a result, many children suffer from lifelong problems with reading. Our teachers are also being pressured to neglect the teaching of grammar. As a result, many children end up with poor reading comprehension and lifelong problems with logical thinking. Thus, they will have difficulty in making or appreciating reasonable arguments. Thomas argues that we cannot hope to enjoy freedom and equality until all children get the kind of education that is appropriate for free people. She concludes with a clear explanation of what that curriculum would be like.

Have you ever stared at patterned wallpaper and wondered how it was designed? Been captivated by some priceless Celtic art? Or boggled at a beautiful Islamic pattern? Have you ever stepped back and thought about the illusion of reality your senses create for you? Or pondered the symmetries which inform your feelings of what seems right? Is there a Golden secret, revealed by nature herself, which is common to all of the traditional arts? Packed with information and exquisite illustrations by more than twelve expert authors, *Designa* is the ultimate

sourcebook for visual artists and designers of every kind.

The Golden Ratio examines the presence of this divine number in art and architecture throughout history, as well as its ubiquity among plants, animals, and even the cosmos. This gorgeous book—with layflat dimensions that closely approximate the golden ratio—features clear, enlightening, and entertaining commentary alongside stunning full-color illustrations by Venezuelan artist and architect Rafael Araujo. From the pyramids of Giza, to quasicrystals, to the proportions of the human face, the golden ratio has an infinite capacity to generate shapes with exquisite properties. This book invites you to take a new look at this timeless topic, with a compilation of research and information worthy of a text book, accompanied by over 200 beautiful color illustrations that transform this into the ultimate coffee table book. Author Gary Meisner shares the results of his twenty-year investigation and collaboration with thousands of people across the globe in dozens of professions and walks of life. The evidence will close the gaps of understanding related to many claims of the golden ratio's appearances and applications, and present new findings to take our knowledge further yet. Whoever you are, and whatever you may know about this topic, you'll find something new, interesting, and informative in this book, and may find yourself challenged to see, apply, and share this unique number of mathematics and science in new ways.

Here the alphabetical systems of the West, including Hebrew, Greek, Runic, Celtic, Medieval, and the Renaissance alphabets of the alchemical tradition are examined in depth. Explains the numerological significance of the various alphabets, and provides exciting evidence for the widespread influence of Runes.

Sacred Geometry exists all around us in the natural world, from the unfurling of a rose bud to the pattern of a tortoise shell, the sub-atomic to the galactic. A pure expression of number and form, it is the language of creation and navigates the unseen dimensions beyond our three-dimensional reality. Since its discovery, humans have found many ways - stone circles, mandalas, labyrinths, temples- to call upon this universal law as a way of raising consciousness and communicating with a divine source. By becoming aware of the dots and lines that build the world around you, Sacred Geometry will teach you how to bring this mystical knowledge into your daily practice.

This book involves understanding the nature and function or language.

Venus draws a beautiful pentagram around Earth every eight years. Jupiter's two largest moons draw a perfect four-fold flower. The Planets grandly play out the slow Music of the Spheres. Is there a secret structure hidden in the Solar System? Packed with great illustrations and serious research from many sources, this internationally bestselling little book by cosmologist John Martineau will instantly retune your cosmological circuits to the extraordinary and primary patterns behind Life, the Universe and Everything. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

Why did Pythagoras pause outside a Blacksmith's workshop? Can the nature of Harmony really be understood visually? Why do harmonies leave gaps or 'commas' when added together? In this charming little book Anthony Ashton uses a Victorian device called a Harmonograph to tell the story of Harmony and the intervals in the scale. With useful appendices and exquisite line drawings this is a unique and original introduction to this timeless subject. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

"This book introduces readers to a paradigm for understanding classical education that transcends the familiar three-stage pattern of grammar, logic, and rhetoric. Instead, this book describes the liberal arts as a central part of a larger and more robust paradigm of classical education that should consist of piety, gymnastic, music, liberal arts, philosophy, and theology. The book also recovers the means by which classical educators developed more than just intellectual virtue (by means of the seven liberal arts) by holistically cultivating the mind, body, will, and affections."--Back cover.

What is the secret code behind so many musical compositions? How do you substitute chords to create greater musical complexity? Why is music so good at playing with people's emotions? In this compact book, composer and pianist Jason Martineau presents the elements of music in clear and comprehensible terms. Packed with superb diagrams and a wealth of fascinating hard-to-come-by musical tips, this is a great primer, and an invaluable resource for novice and professional alike. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

The TRIVIUM consists of the three liberal arts pertaining to language. Grammar, logic, and rhetoric have been studied for over two thousand years as a way of refining both a speaker and their speech. With extra sections on euphonics, poetic meter and form, ethics, and proverbs, this unique compendium contains a wealth of rare information. If you've ever wanted to know more about the power of 'P', the hypnotic quality of anapestic tetrameter, or how to change the mood of a verb, then look no further. If you've ever needed to spot a red herring, wield a zeugma, or improve your ethos, then this is the book for you.

QuadriviumBook Partnership

Do ancient maps prove that the planet was surveyed 12,000 years ago? Were the poles once in a different position to where they are today? Is there a secret pattern joining the great sites of antiquity? In this revolutionary little book, ancient sites expert Hugh Newman outlines various theories concerning geometry in the distribution of sacred sites on Earth and comes to some startling conclusions. Illustrated throughout with fantastic graphics, this book will change your world. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST.

"e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

The Quadrivium consists of the four Liberal Arts of Number, Geometry, Music, and Cosmology, studied from antiquity to the Renaissance as a way of glimpsing the nature of reality. They

synthesize number, space, and time. Geometry is number in space, music is number in time, and the cosmos expresses number in space and time. Number, music, and geometry are metaphysical truths, good and beautiful everywhere at all times. Life across the universe investigates them. They foreshadow the physical sciences. This is the first volume to bring together the Quadrivium for many hundreds of years

Fine-tune your awareness with Sacred Geometry Activations Oracle and enter the realm of multidimensionality. Plato referred to sacred geometry as the language of the soul. For thousands of years, sacred geometry has been a part of every culture. It is the bond that connects us all to the cosmos; it is the true design of our soul. Sacred geometry is the blueprint of creation at the core of all form even at the core of you. Quantum artist LON has created 44 Activations that encourage your analytical mind to step aside so you can enter the domain of the subconscious and the soul, and connect to the quantum field the space of infinite potential. Working with these cards on a daily basis will help you to think outside the box, create a deeper sense of peace in your life, and become a powerful conscious creator.

"Here, Drunvalo Melchizedek presents in text and graphics the first half of the Flower of Life Workshop, illuminating the mysteries of how we came to be, why the world is the way it is and the subtle energies that allow our awareness to blossom into its true beauty." --COVER.

Collects six short illustrated volumes covering topics in mathematics, physics, chemistry, biology, evolution, and astronomy.

Is there a secret visual language all around us? What's so special about the shape of the Great Pyramid? Why is there something so sexy about circles? How many ways can you tile the plane? Lavishly illustrated by the author, this enchanting small introduction to one of the oldest and most widely-used ancient traditions on Earth will forever change the way you look at a triangle, arch, window, fabric repeat, ceramic pattern, graphic design, painting, spiral or flower. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

Composed of six previously published works.

Most Westerners already know that practicing yoga can improve health and create peace of mind. But for those who yearn to add meaningful depth to their lives, even greater riches are possible... In this book, master teacher Rama Vernon shares techniques and knowledge suitable for all levels, from beginners to experienced students and teachers.

The Russian edition of this book appeared in 1976 on the hundred-and-fiftieth anniversary of the historic day of February 23, 1826, when Lobachevskii delivered his famous lecture on his discovery of non-Euclidean geometry. The importance of the discovery of non-Euclidean geometry goes far beyond the limits of geometry itself. It is safe to say that it was a turning point in the history of all mathematics. The scientific revolution of the seventeenth century marked the transition from "mathematics of constant magnitudes" to "mathematics of variable magnitudes." During the seventies of the last century there occurred another scientific revolution. By that time mathematicians had become familiar with the ideas of non-Euclidean geometry and the algebraic ideas of group and field (all of which appeared at about the same time), and the (later) ideas of set theory. This gave rise to many geometries in addition to the Euclidean geometry previously regarded as the only conceivable possibility, to the arithmetics and algebras of many groups and fields in addition to the arithmetic and algebra of real and complex numbers, and, finally, to new mathematical systems, i. e. , sets furnished with various structures having no classical analogues. Thus in the 1870's there began a new mathematical era usually called, until the middle of the twentieth century, the era of modern mathematics.

With exclusive access to Strummer's friends, relatives, and fellow musicians, music journalist Chris Salewicz penetrates the soul of a rock 'n roll icon. The Clash was--and still is--one of the most important groups of the late 1970s and early 1980s. Indebted to rockabilly, reggae, Memphis soul, cowboy justice, and '60s protest, the overtly political band railed against war, racism, and a dead-end economy, and in the process imparted a conscience to punk. Their eponymous first record and London Calling still rank in Rolling Stone's top-ten best albums of all time, and in 2003 they were officially inducted into the Rock and Roll Hall of Fame. Joe Strummer was the Clash's front man, a rock-and-roll hero seen by many as the personification of outlaw integrity and street cool. The political heart of the Clash, Strummer synthesized gritty toughness and poetic sensitivity in a manner that still resonates with listeners, and his untimely death in December 2002 shook the world, further solidifying his iconic status. Salewicz was a friend to Strummer for close to three decades and has covered the Clash's career and the entire punk movement from its inception. He uses his vantage point to write Redemption Song, the definitive biography of Strummer, charting his enormous worldwide success, his bleak years in the wilderness after the Clash's bitter breakup, and his triumphant return to stardom at the end of his life. Salewicz argues for Strummer's place in a long line of protest singers that includes Woody Guthrie, John Lennon, and Bob Marley, and examines by turns Strummer's and punk's ongoing cultural influence.

A Harvard professor and former Dean of Harvard College offers his provocative analysis of how America's great universities are failing students and the nation

Every organism on Earth responds to four major cycles: the solar and lunar day, the synodic month and the year. We all dance to these primary rhythms. This book reveals the poetic cosmology that lies within the cycles of the Sun and Moon as seen from the Earth.

The quadrivium—the classical curriculum—comprises the four liberal arts of number, geometry, music, and cosmology. It was studied from antiquity to the Renaissance as a way of glimpsing the nature of reality. Geometry is number in space; music is number in time; and cosmology expresses number in space and time. Number, music, and geometry are metaphysical truths: life across the universe investigates them; they foreshadow the physical sciences. Quadrivium is the first volume to bring together these four subjects in many hundreds of years. Composed of six successful titles in the Wooden Books series—Sacred Geometry, Sacred Number, Harmonograph, The Elements of Music, Platonic & Archimedean Solids, and A Little Book of Coincidence—it makes ancient wisdom and its astonishing interconnectedness accessible to us today. Beautifully produced in six different colors of ink, Quadrivium will appeal to anyone interested in mathematics, music, astronomy, and how the universe works.

A fascinating and inspirational look at the vital link between the hidden geometrical order of the universe, geometry in nature, and the geometry of the man-made world. The Da Vinci Code has awakened the public to the powerful and very ancient idea that religious truths and mathematical principles are intimately intertwined. Sacred Geometry offers an accessible way of understanding how that connection is revealed in nature and the arts. Over the centuries, temple builders have relied on magic numbers to shape sacred spaces, astronomers have used geometry to calculate holy seasons, and philosophers have observed the harmony of the universe in the numerical properties of music. By showing how the discoveries of mathematics are manifested over and over again in biology and physics, and how they have inspired the greatest works of art, this illuminating study reveals the universal principles that link us to the infinite.

From atom bombs to rebounding slinkies, open your eyes to the mathematical magic in the everyday. Mathematics isn't just for academics and scientists, a fact meteorologist and blogger Peter Lynch has spent the past several years proving through his Irish Times newspaper column and blog, [That's Maths](#). Here, he shows how maths is all around us, with chapters on the beautiful equations behind designing

a good concert venue, predicting the stock market and modelling the atom bomb, as well as playful meditations on everything from coin-stacking to cartography. If you left school thinking maths was boring, think again!

Based in the riches of Christian worship and tradition, this brief, eloquently written introduction to Christian thinking and worldview helps readers put back together again faith and reason, truth and beauty, and the fragmented academic disciplines. By reclaiming the classic liberal arts and viewing disciplines such as science and mathematics through a poetic lens, the author explains that unity is present within diversity. Now repackaged with a new foreword by Ken Myers, this book will continue to benefit parents, homeschoolers, lifelong learners, Christian students, and readers interested in the history of ideas. A compact volume of mathematical and physical formulae presented in a concise manner for general use. Collected in this book are commonly used formulae for studies such as quadratics, calculus and trigonometry; in addition are simplified explanations of Newton's Laws of Gravity and Snell's Laws of Refraction. A glossary, a table of mathematical and physical constants, and a listing of Imperial and Metric conversions is also included.

Beautifully illustrated with many old engravings as well as contemporary imagery, "Sacred Number" covers basic counting systems and the widespread use of 20 important numbers from major religious texts; the importance of astronomy, geometry, and music to number quality; and how numbers affect architecture.

This innovative book reassesses the history of musicology, unearthing the field's twentieth-century German and global roots. In the process, Anna Maria Busse Berger exposes previously unseen historical relationships such as those between the modern rediscovery of medieval music, the rise of communal singing, and the ways in which African music intersected with missionary work in the German colonial period. Ultimately, Busse Berger offers a monumental new account of the early twentieth-century music culture in Germany and East Africa. The book unfolds in three parts. Busse Berger starts with the origins of comparative musicology circa 1900, when early proponents used ideas from comparative linguistics to test whether parallels could be drawn between nonwestern and medieval European music. She then turns to youth movements of the era—the Wandervogel, Jugendmusikbewegung, and Singbewegung—whose focus on joint music making influenced many musicologists. Finally, she considers case studies of Protestant and Catholic mission societies in what is now Tanzania, where missionaries—many of them musicologists and former youth-group members—extended the discipline via ethnographic research and a focus on local music and communities. In highlighting these long-overlooked transnational connections and the role of global music in early musicology, Busse Berger shapes a fresh conception of music scholarship during a pivotal part of the twentieth century.

Across the Islamic world, illuminating Korans from Morocco to Malaysia, and adorning mosques, mausoleums and palaces, are hidden some of the most exquisite geometrical devices ever conceived by man. In this excellent little book, geometer Daud Sutton unravels the mystery of Islamic patterns, explaining where they come from, how to draw them, and hinting at the Divine messages they encode. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

Encompassing nature, science, art, architecture, and spirituality, and illustrated with over 700 photographs and line drawings, "The Hidden Geometry of Life" illuminates the secret underpinnings of existence. In her trademark easy-to-understand style, mathematician Karen French shows how sacred geometry permeates every level of being, manifesting itself in simple shapes and numbers, music and sounds, light and color, even in the mysteries of creation itself. But these geometrical archetypes are more than the building blocks of reality: they are gateways to profound new levels of awareness.

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