Rebel Genius

Kazimir Malevich and the Art of Geometry

This work takes a close look at a broad range of 20th-century examples of design, architecture and illustration, revealing underlying geometric structures in their compositions.

Geometry and Its Applications in Arts, Nature and Technology

This review of literature on perspective constructions from the Renaissance through the 18th century covers 175 authors, emphasizing Piero della Francesca, Guidobaldo del Monte, Simon Stevin, Brook Taylor, and Johann Heinrich. It treats such topics as the various methods of constructing perspective, the development of theories underlying the constructions, and the communication between mathematicians and artisans in these developments.

Sacred Geometry Coloring Book

A fully illustrated inspirational art book from visionary painter Francene Hart • Includes more than 80 full-color reproductions of Hart's intricate watercolor paintings and the stories behind them • Recounts the evolution of her art and her discovery of the hidden order of Nature that led to her masterful artistic integrations of Nature, Spirit, and Sacred Geometry • Explores how to tap into the energies provided by spirit guides and power animals, like Jaguar, Raven, Octopus, and Dolphin, and harness the intelligence of the heart for creative inspiration and vision Every one of us possesses the potential to receive visionary experiences and integrate them into our lives. Artists become visionaries by cultivating their instinctive creative spark and sharing their profound visions with the world. In this lavishly illustrated memoir, including more than 80 full-color reproductions of her intricate watercolor paintings and the stories behind them, Francene Hart recounts the evolution of her art from formative influences to her masterful integrations of Nature, Spirit, and Sacred Geometry. Opening with her early work on mandalas and her explorations of the work of Joseph Campbell and C. G. Jung, Hart explains how her first works of art were in response to the solitary life she led in the forest, where she discovered the hidden order of Nature. She reveals how she learned to center her artistic explorations on the intelligence of the heart rather than the intellect, utilizing the wisdom and imagery of Sacred Geometry, reverence for the natural environment, and the interconnectedness between all things as her inspirations. She describes the shamanic lessons that accompanied her discoveries and shaped her understanding of sacred relationships with the self, others, and Mother Earth. She explores how to tap into the energies provided by spirit guides and power animals, like Jaguar, Raven, Octopus, and Dolphin, and explains her profound affinity for the ocean, including her discovery of water consciousness in Hawaii. Offering chronicles of her inspiring travels and transformational encounters around the world, Hart shares her experiences at sacred sites in the Amazon, Central America, Egypt, England, Scotland, Paris, Cambodia, and the Himalayas and how these places influenced her art. Exploring what is revealed as inspiration arises, Spirit informs, and vision is transformed into art, Francene Hart's journey offers a window into the secret order of Nature, the power of sacred symbols for evolving consciousness, and a visionary artistic path that perfectly blends the mathematical rigors of sacred geometry and the numinous.

Geometry of Shadows

Dynamic Symmetry

This collective study focuses on a unique undated anonymous primary source on ornamental geometry featuring geometrical constructions and textual instructions in Persian. The chapters interpreting this fascinating medieval source are followed by a facsimile, transcription, English translation, and supplementary drawings.

Geometry of Design

Between the seventeenth and nineteenth centuries Japan was totally isolated from the West by imperial decree. During that time, a unique brand of homegrown mathematics flourished, one that was completely uninfluenced by developments in Western mathematics.
People from all walks of life--samurai, farmers, and merchants--inscribed a wide variety of geometry problems on wooden tablets called sangaku and hung them in Buddhist temples and Shinto shrines throughout Japan. Sacred Mathematics is the first book published in the West to fully examine this tantalizing--and incredibly beautiful--mathematical tradition. Fukagawa Hidetoshi and Tony Rothman present for the first time in English excerpts from the travel diary of a nineteenth-century Japanese mathematician, Yamaguchi Kanzan, who journeyed on foot throughout Japan to collect temple geometry problems. The authors set this fascinating travel narrative--and almost everything else that is known about temple geometry--within the broader cultural and historical context of the period. They explain the sacred and devotional aspects of sangaku, and reveal how Japanese folk mathematicians discovered many well-known theorems independently of mathematicians in the West--and in some cases much earlier. The book is generously illustrated with photographs of the tablets and stunning artwork of the period. Then there are the geometry problems themselves, nearly two hundred of them, fully illustrated and ranging from the utterly simple to the virtually impossible. Solutions for most are provided. A unique book in every respect, Sacred Mathematics demonstrates how mathematical thinking can vary by culture yet transcend cultural and geographic boundaries.

### Drawing Geometric

This book returns geometry to its natural habitats: the arts, nature and technology. Throughout the book, geometry comes alive as a tool to unlock the understanding of our world. Assuming only familiarity with high school mathematics, the book invites the reader to discover geometry through examples from biology, astronomy, architecture, design, photography, drawing, engineering and more. Lavishly illustrated with over 1200 figures, all of the geometric results are carefully derived from scratch, with topics from differential, projective and non-Euclidean geometry, as well as kinematics, introduced as the need arises. The mathematical results contained in the book range from very basic facts to recent results, and mathematical proofs are included although not necessary for comprehension. With its wide range of geometric applications, this self-contained volume demonstrates the ubiquity of geometry in our world, and may serve as a source of inspiration for architects, artists, designers, engineers, and natural scientists. This new edition has been completely revised and updated, with new topics and many new illustrations.

### The Geometry of Art and Life

An exquisite visual celebration of the 2,500-year history of geometry If you’ve ever thought that mathematics and art don’t mix, this stunning visual history of geometry will change your mind. As much a work of art as a book about mathematics, Beautiful Geometry presents more than sixty exquisite color plates illustrating a wide range of geometric patterns and theorems, accompanied by brief accounts of the fascinating history and people behind each. With artwork by Swiss artist Eugen Jost and text by math historian Eli Maor, this unique celebration of geometry covers numerous subjects, from straightedge-and-compass constructions to intriguing configurations involving infinity. The result is a delightful and informative illustrated tour through the 2,500-year-old history of one of the most important branches of mathematics.

### Viewpoints

This classic study probes the geometric interrelationships between art and life in discussions ranging from dissertations by Plato, Pythagoras, and Archimedes to examples of modern architecture and art. Other topics include the Golden Section, geometrical shapes on the plane, geometrical shapes in space, crystal lattices, and other fascinating subjects. 80 plates and 64 figures.

### Painter’s Secret Geometry, The: A Study of Composition in Art

### Sacred Mathematics

Integrate practical insights from modern physics, ancient Hermetic Laws, non-dual meta-physics, transpersonal psychology, and humor, as tools for undoing conflicting beliefs we’ve dreamed ourselves into. The seven Hermetic laws are explored in depth and demonstrate how a mindfulness that embraces ‘other’ as ‘self’ can reverse the typical misapplication of these inescapable laws of Mentalism, Correspondence, Vibration, Polarity, Rhythm, Cause & Effect and Generation. Ubiquitous geometric symbols, paired to each of these laws - the circle, vesica piscis, sine wave, line, spiral, fractal and yin-yang - and their countless commonplace variations, seen from the vantage point of shared interests, reflect these ideas. The inspired use of natural law restores attributes of life, love, strength, purity, beauty, perfection and gratitude to our awareness.

### The Geometry of Creation

An undergraduate textbook devoted exclusively to relationships between mathematics and art, Viewpoints is ideally suited for math-for-liberal-arts courses and mathematics courses for fine arts majors. The textbook contains a wide variety of classroom-tested activities and problems, a series of essays by contemporary artists written especially for the book, and a plethora of pedagogical and learning opportunities for instructors and students. Viewpoints focuses on two mathematical areas: perspective related to drawing man-made forms and fractal geometry related to drawing natural forms. Investigating facets of the three-dimensional world in order to understand mathematical concepts behind the art, the textbook explores art topics including comic, anamorphic, and classical art, as well as photography, while presenting such mathematical ideas as proportion, ratio, self-similarity, exponents, and logarithms. Straightforward problems and rewarding solutions empower students to make accurate, sophisticated drawings. Personal essays and short biographies by contemporary artists--who
include mathematicians and scientists--examine how mathematics influences their art. Accessible to students of all levels, Viewpoints encourages experimentation and collaboration, and captures the essence of artistic and mathematical creation and discovery. Classroom-tested activities and problem solving Accessible problems that move beyond regular art school curriculum Multiple solutions of varying difficulty and applicability Appropriate for students of all mathematics and art levels Original and exclusive essays by contemporary artists Forthcoming: Instructor’s manual (available only to teachers)

Squaring the Circle

This book is a visually compelling journey through the unique geometric discoveries of Frank Chester, a contemporary sacred geometry, artist, and sculptor. This art-style book with highly polished design elements leads the reader from discovery to discovery, complemented by original text from the author, a PhD who has studied Frank’s work from its inception, when it was just seven sticks in a ball of mud on the banks of the American River From the back cover: The ancient tradition of Sacred Geometry is still alive and well in the person of Frank Chester. He has discovered a new geometric form that unites the five Platonic solids and provides some startling indications about the form and function of the human heart. This new form, called the Chestahedron, was discovered in 2000, and is a seven-sided polyhedron with surfaces of equal area. Frank has been exploring the form and its significance for over a decade. His work has potential implications across a number of areas, from physiology to architecture, sculpture, geology, and beyond. Inspired by the work of Rudolf Steiner, Frank sees a deep connection between form and spirit. This book gives a brief, highly visual overview of some of Frank’s discoveries, and presents a compelling series of indications for future research.

Beyond Geometry

The long-awaited new edition of a groundbreaking work on the impact of alternative concepts of space on modern art. In this groundbreaking study, first published in 1983 and unavailable for over a decade, Linda Dalrymple Henderson demonstrates that two concepts of space beyond immediate perception--the curved spaces of non-Euclidean geometry and, most important, a higher, fourth dimension of space--were central to the development of modern art. The possibility of a spatial fourth dimension suggested that our world might be merely a shadow or section of a higher dimensional existence. That iconoclastic idea encouraged radical innovation by a variety of early twentieth-century artists, ranging from French Cubists, Italian Futurists, and Marcel Duchamp, to Max Weber, Kazimir Malevich, and the artists of De Stijl and Surrealism. In an extensive new Reintroduction, Henderson surveys the impact of interest in higher dimensions of space and culture from the 1950s to 2000. Although largely eclipsed by relativity theory beginning in the 1920s, the spatial fourth dimension experienced a resurgence during the later 1950s and 1960s. In a remarkable turn of events, it has returned as an important theme in contemporary culture in the wake of the emergence in the 1980s of both string theory in physics (with its ten- or eleven-dimensional universes) and computer graphics. Henderson demonstrates the importance of this new conception of space for figures ranging from Buckminster Fuller, Robert Smithson, and the Park Place Gallery group in the 1960s to Tony Robbin and digital architect Marcos Novak.

Islamic Design

Let your creativity flow by drawing amazing geometric shapes! Whether you’re a beginning artist looking for a way to get in touch with your creative side, a harried executive looking for a meditative hobby to reduce stress, or are already an experienced artist, learning to draw geometrically can expand your horizons, giving you a new angle on how you view your world. Even if the thought of drawing daunts you, anyone can draw simple shapes like triangles, circles, squares, and hexagons. This kit will show you how to put those shapes together in surprising ways and patterns. This kit includes: - Hypotroid Spirograph Stencil Ruler for creating amazing spiral drawings - Two 8x6 geometric drawing stencils featuring a wide variety of geometric shapes - 112 page drawing tablet with illustrations and prompts to guide you on your journey of drawing geometric - Plus empty pages for your own amazing creations!

The Painter’s Secret Geometry

The flowering of Gothic architecture depended to a striking extent on the use of drawing as a tool of design. By drawing precise "blueprints" with simple tools such as the compass and straightedge, Gothic draftsmen were able to develop a linearized architecture of unprecedented complexity and sophistication. Examination of their surviving drawings can provide valuable and remarkably intimate information about the Gothic design process. Gothic drawings include compass pricks, uninked construction lines, and other telltale traces of the draftsmen's geometrically based working method. The proportions of the drawings, moreover, are those actually intended by the designer, uncompromised by errors introduced in the construction process. All of these features make these drawings ideal subjects for the study of Gothic design practice, but their geometry has to date received little systematic attention. This book offers a new perspective on Gothic architectural creativity. It shows, in a series of rigorous geometrical case studies, how Gothic design evolved over time, in two senses: in the hours of the draftsmen’s labor, and across the centuries of the late Middle Ages. In each case study, a series of computer graphics show in unprecedented detail how a medieval designer could have developed his architectural concept step by step, using only basic geometrical operations. Taken together, these analyses demonstrate both remarkable methodological continuity across the Gothic era, and the progressive development of new and sophisticated permutations on venerable design themes. This rich tradition ultimately gave way in the Renaissance not because of any inherent problem with Gothic architecture, but because the visual language of Classicism appealed more directly to the pretensions of Humanist princes than the more abstract geometrical order of Gothic design, as the book’s final chapter demonstrates.

Art and Geometry

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.

The Arts of Ornamental Geometry

At last, a mathematical explanation of how art works presented in a manner we can all understand. Kimberly Elam takes the reader on a geometrical journey, lending insight and coherence to the design process by exploring the visual relationships that have foundations in mathematics as well as the essential qualities of life. Geometry of Design takes a close look at a broad range of twentieth-century examples of design, architecture, and illustration (from the Barcelona chair to the paintings of Georges Seurat, from the Braun hand blender to the Conico kettle), revealing underlying geometric structures in their compositions. Explanations and techniques of visual analysis make the inherent mathematical relationships evident and a must-have for anyone involved in art, design, or architecture graphic arts. The book focuses not only on the classic systems of proportioning, such as the golden section and root rectangles, but also on less well known proportioning systems such as the Fibonacci Series. Through detailed diagrams these geometric systems are brought to life giving an effective insight into the design process.

Women, Art and Geometry in Southern Africa

An exploration of the construction and meaning of Islamic geometric patterns. Throughout their long history the craft traditions of the Islamic world evolved a multitude of styles applied to a great variety of media but always with unifying factors that make them instantly recognizable. Harmony is central. There are two key aspects to the visual structure of Islamic design—calligraphy using Arabic script (one of the world’s great calligraphic traditions) and abstract ornamentation using a varied but remarkably integrated visual language. Focusing on Islamic geometric patterns, simple and complex, man-made and in nature, this book offers unique insight into Islamic culture.

GEOMETRY WITH THE EYES

‘Beyond Geometry’ brings together examples of European and Latin American concrete art, Argentine Arte Madí, Brazilian Neo-Concretism, Kinetic and Op Art, Minimalism and various forms of post-Minimalism including systematic forms of process and conceptual art.

Geometry and Art

James Bartos offers a compelling account of the rich history and enduring aesthetic power of geometric abstract art. Writing with the passion of a committed collector and the sensibility of an art historian, Bartos doesn’t just chart his subject, he defends its place within the contemporary art world and provokes larger questions about what makes art meaningful. All this is only the backdrop to the real subject of his book, the six ‘not very British’ artists who are presented through a series of insightful new interviews with the artists and their gallerists. Bartos’s unusual combination of art history, critique and artist testimony thoroughly reinvigorates one’s appreciation of geometric abstract art today. Barnaby Wright, Deputy Head of The Courtauld Gallery and Daniel Katz, Curator of 20th Century Art Int this deeply personal study, James Bartos situates British geometric abstraction within the context of a broader international movement which spanned the course of the twentieth century, and which continues into our own time. The author’s thoughtful consideration of Alan Reynolds, Peter Joseph, Marc Vaux, John Carter, Callum Innes, and Luke Frost - six artists whose beautiful and deeply intelligent work Bartos reveres and collects - examines why geometric abstraction developed as a side-stream to figuration in British art, appreciated more enthusiastically abroad than at home. Interviews with the artists and those who knew them, illustrated with fine examples across a range of media, explore what drew each to pursue a means of expression that developed against the grain of British modernism. These thoughtful conversations press for a serious reconsideration of the artists' work, and of British geometric abstraction more generally. Amy Meyers, Director, Yale Center for British Art

The Geometry of an Art

Gathered from early twentieth-century Italian magazines, manuscripts, correspondence, television recordings, and ephemeral art
volumes, Geometry of Shadows is the first comprehensive collection of Giorgio de Chirico’s Italian poetry, with award-winning poet Stefania Heim’s translations presented alongside the Italian originals.

**Geometry of Design, Revised and Updated**

The main objective of the book is to call attention to some mathematical ideas incorporated in the patterns invented by women in Southern Africa. An appreciation of these mathematical traditions may lead to their preservation, revival and development. Use of female art traditional forms has implications in the field of mathematics education.

**The Geometry of Environment**

This highly stimulating study observes many historical interrelationships between art and mathematics. It explores ancient and Renaissance painting and sculpture, the development of perspective, and advances in projective geometry.

**The Fourth Dimension and Non-Euclidean Geometry in Modern Art**

Originally published in 1971 The Geometry of Environment is a fusion of art and mathematics introducing stimulating ideas from modern geometry, using illustrations from architecture and design. The revolution in the teaching of mathematics and the advent of the computer in design challenge traditional ways of appreciating the space about us, and expand the ‘structural’ understanding of our surroundings through such concepts as transformations, symmetry groups, sets and graphs. This book aims to show the relevance of ‘new maths’ and encourages exploration of the widening intellectual horizons of environmental design and architecture.

**Sacred Geometry of Nature**

A comprehensive survey on Islamic geometry in modern and contemporary art. In a groundbreaking volume about the use of Islamic geometry in modern and contemporary art from the region, Middle East art expert and Sotheby’s Deputy Chairman Roxane Zand, and Dr Sussan Babaie professor of Islamic arts at the Courtauld Institute of Art of the University of London, explore ways in which traditional geometric legacies are applied and interpreted in new contexts. Dr Babaie’s scholarly essay traces the significance of geometry in the history of Islamic arts, looking at the emergence of modernisms of the Middle East through the prism of selected works by twenty artists and their multidisciplinary practices. Their works underscore the distinctive ways geometry, a universal heritage, has inspired the art of the region. Lavishly illustrated and bound, the book is aimed at both the general user and those with academic interest.

**The Geometry of Art and Life**

Richly illustrated examination of Western visual arts shows how great masters and modern painters employed the "golden mean" and other geometrical patterns. Cult classic and essential guide for art history students.

**The Geometry of Beauty**

This richly illustrated examination of visual arts in the European tradition shows how the great masters employed the "golden mean" and other geometrical patterns to compose their paintings. Author Charles Bouleau explores a tremendous variety of ancient and modern works: the Parthenon friezes, Italian mosaics, the Bayeux Tapestry, and Gothic stonemasons' marks of France and Germany as well as paintings by Picasso, Kandinsky, Klee, and Pollock. His insightful expositions cast new light on such well-known works as Raphael’s "The School of Athens," Botticelli’s "Birth of Venus," Rubens' "Descent from the Cross," and Renoir's "Le Moulin de la Galette." Advancing step by step through each painter's vast body of work, the survey highlights new contributions from each period and artist. Every analysis is conducted according to strict methods, placing the work within the intellectual atmosphere of its time. Original, informative, and stimulating, "The Painter’s Secret Geometry" reveals the framework of art as well as its most profound and secret poetry. This new edition of the cult classic is a vade mecum for any student of art history or artistic composition.

**Sacred Geometry for Artists, Dreamers, and Philosophers**

A new fantasy-adventure series from the co-creator of the hit animated shows Avatar: The Last Airbender and The Legend of Korra! In twelve-year-old Giacomo’s Renaissance-inspired world, art is powerful, dangerous, and outlawed. A few artists possess Geniuses, birdlike creatures that are the living embodiment of an artist’s creative spirit. Those caught with one face a punishment akin to death, so when Giacomo discovers he has a Genius, he knows he’s in serious trouble. Luckily, he finds safety in a secret studio where young artists and their Geniuses train in sacred geometry to channel their creative energies as weapons. But when a murderous artist goes after the three Sacred Tools—objects that would allow him to destroy the world and everyone in his path—Giacomo and his friends must risk their lives to stop him. “DiMartino masterfully weaves a thrilling action-adventure epic into an imaginative and terrifying world.” —Bryan Konietzko, co-creator of Avatar: The Last Airbender and The Legend of Korra “Rebel Genius is a natural extension of Michael Dante DiMartino’s work on Avatar: The Last Airbender: charming young heroes, magical creatures, an innovative magic system, and mysteries galore. There is so much to love about this book!” —Gene Yang, National Ambassador for Young People’s Literature and author of American Born Chinese “DiMartino delivers a magical take on the power of art. With a cast that will charm you and an innovative new world to get lost in, Rebel Genius is a gift for fantasy lovers and a treasure for anyone who has ever tried to pick up a brush or a pen and make something new. A lively, thrilling spin on the struggle to create.”—Leigh Bardugo, author of the Grisha trilogy
and the Six of Crows series “Rebel Genius contains all of Mike DiMartino’s hallmarks: an exquisite world dripping with magic and color, a cast of incredible, diverse characters, and artwork that will take your breath away. Get ready to fall in love.” —Marie Lu, author of the Legend trilogy and the Young Elites trilogy "Rebel Genius is a mind-blowing new series, a passionate blend of adventure, mystery, and puzzle-solving that has no end to its imagination." —Soman Chainani, author of The School for Good and Evil trilogy

The Geometry Code

Geometry is both elegantly simple and infinitely profound. Many professionals find they need to be able to draw geometric shapes accurately, and this unique book shows them how. It provides step-by-step instructions for constructing two-dimensional geometric shapes, which can be readily followed by a beginner, or used as an invaluable source book by students and professionals.

Beautiful Geometry

"This richly illustrated examination of visual arts in the European tradition shows how the great masters employed the Golden Mean and other geometrical patterns to compose their paintings. Up-to-date examples include works by Klee and Pollack. Highly sought-after cult classic and vade mecum for students of art history and artistic composition"--

The Painter's Secret Geometry

This classic study probes the geometric interrelationships between art and life in discussions that range from Plato, Pythagoras, and Archimedes to modern architecture and art. Includes 80 plates and 64 figures.

A New Sacred Geometry

This survey traces the effects of geometry on artistic achievement and clearly discusses its importance to artists and scientists. It also surveys projective geometry, mathematical curves, theories of perspective, architectural form, and concepts of space.

Perspective and Projective Geometry

Through a unique approach combining art and mathematics, Perspective and Projective Geometry introduces students to the ways that projective geometry applies to perspective art. Geometry, like mathematics as a whole, offers a useful and meaningful lens for understanding the visual world. Exploring pencil-and-paper drawings, photographs, Renaissance paintings, and GeoGebra constructions, this textbook equips students with the geometric tools for projecting a three-dimensional scene onto two dimensions. Organized as a series of exercise modules, this book teaches students through hands-on inquiry and participation. Each lesson begins with a visual puzzle that can be investigated through geometry, followed by exercises that reinforce new concepts and hone students' analytical abilities. An electronic instructor's manual available to teachers contains sample syllabi and advice, including suggestions for pacing and grading rubrics for art projects. Drawing vital interdisciplinary connections between art and mathematics, Perspective and Projective Geometry is ideally suited for undergraduate students interested in mathematics or computer graphics, as well as for mathematically inclined students of architecture or art. Each piece is accompanied by brief yet insightful commentary about the symbols and animals shown. 

Sacred Geometry

Beautiful line-art depictions of the intricate paintings of visionary artist Francene Hart • Includes 45 illustrations to color based on the art of Hart's popular Sacred Geometry Oracle Deck and Sacred Geometry Cards for the Visionary Path • Each piece is accompanied by brief, insightful commentary about the symbols and animals shown • Intertwines the complex forms of Sacred Geometry with the beauty of Nature, including dolphins, dragonflies, trees, and many other forms and symbols Experience firsthand the beauty of Nature’s animal and plant kingdoms intertwined with the wonders of Sacred Geometry and Spirit as you color the intricate and divine paintings of visionary artist Francene Hart. Drawing on the imagery from her popular Sacred Geometry Oracle Deck and Sacred Geometry Cards for the Visionary Path, this coloring book contains 45 illustrations of Hart’s renowned Sacred Geometry paintings and drawings. Each piece is accompanied by a brief yet insightful commentary explaining the meaning behind the symbols and animals shown and offering inspiration to open your awareness to how these shapes influence our reality and tune your energies. From dolphins and dragonflies, to the power of the torus, labyrinths, and the Flower of Life, this coloring book will lead you on a contemplative journey into the interconnected realms of Sacred Geometry, Nature, and Spirit while supporting your sense of wholeness and joy.

Geometry & Art

This book is the result of fifteen years of studies on art, in collaboration with mathematicians (in particular Jean-Paul Guichard and the IREM of Poitiers). Until the Renaissance, the composition of painting and architecture was based on a specific geometry, called with the eyes. Its adventure began before writing, and books report nothing about. This practice avoids calculation for fear of scaring numbers, thanks to a grid where the figures are constructed. Thales, like many Greek philosophers, went to Egypt to learn it - he will give his name to the axioms. Then, all the properties are demonstrated with visual evidences, qualified as monstrations, in particular the four manifestations of the golden ratio in the triangle 3-4-5. This book offers a rich pedagogical material, as well as a solid basis for
reflection on art and history. Rublev, Botticelli and Durer are the great masters of this art. The color images for the screen, and the B/W for print, are accessible on the Internet.

**Quadrivium**

A fascinating and authoritative look at how geometry changed the world of art forever. Geometry & Art follows the artists of the Renaissance, whose search for perspective and visual depth led them to the study of geometry. Influencing the work of artists such as Paolo Uccello, Piero della Francesca, and Leonardo da Vinci, this incredible artistic breakthrough quickly spread to Germany, where a passion for polyhedral based geometrical designs flourished as a district new art in the mid-16th century. A period of enormous political and cultural change, the Renaissance empowered artists to draw upon a blossoming revival of classical art, philosophy, and culture. At the same time, a wealth of new ideas and concepts were flowing into Europe from the Islamic Middle East. And it was this flood of revolutionary new thought that would lead to the syntheses of mathematics, geometry, and art that characterises the painting, sculpture, and visual language of the Renaissance. This compelling volume uses engaging text, compelling historical accounts, and 250 beautiful illustrations to immerse readers in the fundamental Renaissance forms which, although conceived over five hundred years ago, still have the capacity to inspire us with their beauty.

**Drawing Geometry**

Composed of six previously published works.

**Geometry and the Visual Arts**

This truly unique new title should appeal to both mathematicians and mathematics educators. It should also find a small market among professional and reference book buyers: mathematical professionals with interest in travel, art, architecture. The title is intended for math students who are interested in art, or art students with an interest (or requirement) in mathematics, or professionals with interest in mathematics and art. Geometry concepts are introduced by analyzing well known buildings and works of art. The book is packaged with an access code which allows the reader into a protected site, which will contain most of the fine art from the book in full color as well as teaching resources. The text appeals both to mathematicians and to artists and will generally be used in courses that bridge the two subjects. --Publisher description.

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