

Golden Ratio In Human Anatomy Researchgate

Explores the aesthetic, emotional, artistic and philosophical significance of geometric figures, scientific patterns and mathematical formulas

Dr. Eben Alexander, author of international phenomenon *Proof of Heaven*, shares the next phase of his journey to understand the true nature of consciousness and how to cultivate a state of harmony with the universe and our higher purpose. In 2008, Dr. Eben Alexander's brain was severely damaged by a devastating case of bacterial meningitis, and he lapsed into a weeklong coma. It was almost certainly a death sentence, but he miraculously survived and brought back with him an astounding story. During those 7 days in coma, he was plunged into the deepest realms of consciousness and came to understand profound truths about the universe we inhabit. What he learned changed everything he knew about the brain, mind, and consciousness and drove him to ask a question confounding the entire scientific community: How do you explain the origins of consciousness if it is not a byproduct of the brain? His challenge relates to a revolutionary shift now underway within our modern scientific understanding. Ultimately, direct experience is key to fully understanding how we are all connected through the binding force of unconditional love and its unlimited power to heal. In *Living in a Mindful Universe*, the New York Times bestselling author of *Proof of Heaven* and *The Map of Heaven* shares his insights into the true nature of consciousness. Embracing his radically new worldview, he began a committed program of personal exploration into nonlocal consciousness. Along the way, he met Karen Newell, who had spent most of her lifetime living the worldview he had only just discovered was possible. Her personal knowledge came from testing various techniques and theories as part of her daily routine. With *Living in a Mindful Universe*, they teach you how to tap into your greater mind and the power of the heart to facilitate enhancement of healing, relationships, creativity, guidance, and more. Using various modalities related to meditation and mindfulness, you will gain the power to access that infinite source of knowing so vital to us all, ultimately enriching every facet of our lives.

This book presents the select peer-reviewed proceedings of the International Conference on Signal and Data Processing (ICSDP) 2019. It examines and deliberates on the recent progresses in the areas of communication and signal processing. The book includes topics on the recent advances in the areas of wired and wireless communication, low complexity architecture of MIMO receivers, applications on wireless sensor networks and internet of things, signal processing, image processing and computer vision, VLSI embedded systems, cognitive networks, power electronics and automation, mechatronics based applications, systems and control, cognitive science and machine intelligence, information security and big data. The contents of this book will be useful for beginners, researchers, and professionals interested in the area of communication, signal processing, and allied fields.

This two volume set (LNCS 8156 and 8157) constitutes the refereed proceedings of the 17th International Conference on Image Analysis and Processing, ICIAP 2013, held in Naples, Italy, in September 2013. The 162 papers presented were carefully reviewed and selected from 354 submissions. The papers aim at highlighting the connection and synergies of image processing and analysis with pattern recognition and machine learning, human computer systems, biomedical imaging and applications, multimedia interaction and processing, 3D computer vision, and understanding objects and scene.

A reaffirmation that mathematics should be used more often to make general public policy."—MAA Reviews

Innovations in Strategy Crafting is a provocative work for strategists and executives as well as innovators, planners, implementers, and students of strategy and innovation across any industry. Robert Brodnick, Ph.D., a recognized thought leader in the field, draws on his strengths in strategy, innovation, facilitation, design thinking, and organizational development and change to help today's organizations thrive in a time of uncertainty and complexity. Each chapter contains applicable tools and detailed graphics that the author has used in his work with organizations across industries, at the university level, as the co-founder of Sierra Learning Solutions, and with his collaborators. The author—with help from collaborators—explores the fundamental patterns that compose the world in which we live, how we can apply both the arts and mathematics to strategy, how turbulence can be used constructively when crafting strategy, and what he believes may be the next innovations in strategy crafting.

Eat bread and cheese, drink wine-and lose weight!The secret lies in an ancient mathematical formula now transformed into...THE DIET CODEAs a master baker and craftsman, Stephen LanzaLotta had been applying the mathematical principles of the Golden Ratio for more than twenty years. His realization that this ancient, universal formula, used by Da Vinci and other great geniuses of the Renaissance, also held the secret to optimal nutrition and health led him to apply it to his own diet and the menu at his popular cafe. The weight loss and sense of well-being that he and his customers experienced convinced him that he had cracked the diet code, discovering a simple, natural, and nutritious approach to healthy eating that is as easy as 1, 2, 3.His revolutionary Mediterranean-style eating program uses the Golden Ratio to link the proper proportions of everyday foods to boost metabolism and spark weight loss. Combining a three-phase eating program with detailed menu plans, mouthwatering recipes, Renaissance lore, and Italian-inspired lifestyle advice, THE DIET CODE is a unique health and weight loss program from the ages for the ages.In it readers will:* Crack the diet code-discover how the Golden Ratio can work for you to boost metabolism and maximize nutrition and weight loss* Forget about the math-it's all done for you, and the net result is deliciously simple: 1 part grain carbohydrate, 2 parts protein, 3 parts vegetables at every meal* Enjoy bread again! It really is the staff of life-as long as you eat it along with the right amount of fat or protein* Experience natural weight control-choose and properly prepare healthful, readily available foods as they did during the Renaissance.THE DIET CODE is a unique approach to eating well based on a mathematical phenomenon that's been around for centuries but has never before been applied to diet. Now prepare to lose weight and get healthy by asking yourself, "What would Da Vinci eat?"

What was the golden secret known to Leonardo da Vinci, Kepler, Plato and the ancient magicians? Can there really be a key to nature and life itself? In this small but compact volume internationally renowned divine proportion supersleuth Dr Olsen unravels perhaps the greatest mystery of all time, a code that seems to underly life, the universe and everything, a pattern we instinctively recognise as beautiful, and which nature herself uses at every scale. Designed for artists and scientists alike, this is the smallest, densest and most beautiful book on the golden section ever produced. 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.

A hugely enjoyable, brilliantly researched explanation of the basic principles of maths.

No matter how stuck you feel, no matter how bad you think your genetics are, and no matter how many “advanced” diets and workout programs you’ve tried and abandoned you absolutely, positively can shatter muscle and strength plateaus, set new personal records, and build your best body ever. And better yet, you can do it without following restrictive or exotic diets, putting in long hours at the gym, or doing crushing workouts that leave you aching from tip to tail. This book shows you how. Here are just a few of the things you’ll discover in it: · How to almost instantly optimize your environment so you need less willpower to stay on track with your diet, training, supplementation, and wellness routines. · The nitty-gritty details about how to use advanced diet strategies like mini-cuts, intermittent fasting, and calorie cycling to immediately boost muscle growth and fat loss. · The little-known and unorthodox methods of determining how big and strong you can get with your genetics, according to the hard work of two highly respected fitness researchers. · A paint-by-numbers training system that’ll get you unstuck and steadily gaining muscle again in all the right places . . . spending only 4 to 6 hours in the gym every week doing challenging and fun workouts you actually enjoy. · The ancient secret of anatomy discovered by Leonardo da Vinci that gives you a simple blueprint for developing the exact proportions that literally make you look like a Greek god—a big, full chest; wide, tapered back; thick, powerful legs; and strong, bulging arms. · A no-BS guide to “sophisticated” supplements that’ll show you what works and what doesn’t, saving you hundreds if not thousands of dollars each year on exotic pills, powders, and potions. · And a whole lot more! The bottom line is you CAN gain real muscle and strength again, look forward to your workouts again, and feel like your fitness is finally under control again.

Essential Mathematics for the Australian Curriculum provides an authoritative and practical interpretation of all content strands, substrands and content descriptions.

This is a facsimile (in black and white) of *De Divina Proportione* ("On the Divine Proportion"), printed June 1st 1509 in Venice, of which only two copies reached our XXIth century. It had to become one among the most famous books in the world, but not only because it was partly made by Leonardo da Vinci and printed during his lifetime. He drew fifty nine of the sketches it includes, which form the earliest work from the artist's hand to appear in print. Luca Bartolomeo de Pacioli (1445-1517), Italian mathematician and Franciscan friar, wrote the full text of it. He and Leonardo da Vinci set forth a way of describing the visible world in terms of its common geometrical elements, what he calls the "divine proportion", equally known as the "Golden ratio". Even the layout of this book, which we may find somehow surprising today, Pacioli and da Vinci drafted it on a geometrical grid with respect to the divine proportion. *De Divina proportione* also is one of the most remarkable illustrated books published in the sixteenth century. Based on the writings of Plato, Euclid, and Vitruvius, and arguing his thesis by means of exegesis and the generous use of evocative illustration, Pacioli claims that this proportional element is shared by a variety of solid bodies, from human anatomy to architectural forms and even to the composition of the letter's design in the Roman alphabet. Today we don't know how many copies of *De Divina Proportione* were printed in Venice by printer Paganinus de Paganinus. Two surviving copies only exist, one at the Biblioteca Ambrosiana in Milan, and the second at the Bibliothèque de Genève in Geneva, Switzerland. For the intersection of art and science and the active engagement of the pre-eminent genius of the period, Leonardo da Vinci, this is one of the most iconic works of the Italian Renaissance. The clarity of both the written material and Leonardo's diagrams gave the book a popularity beyond mathematical circles. It has since then been reprinted several times and translated in many languages. Identifying the Mayan World Tree with the central axis of the cosmos, the author shows how evolution is not random • Shows how the evolution of the universe emanates from the cosmic Tree of Life • Explains the origin and evolution of biological life and consciousness and how this is directed Using recent findings within cosmology, coupled with his broad understanding of the Mayan Calendar, biologist Carl Johan Calleman offers a revolutionary and fully developed alternative to Darwin's theory of biological evolution--and the theory of randomness that holds sway over modern science. He shows how the recently discovered central axis of the universe correlates with the Tree of Life of the ancients. This provides an entirely new context for physics in general and especially for the origin and evolution of life and suggests that we look upon ourselves as parts of a hierarchy of systems that are all interrelated and evolve in a synchronized way. Calleman's research demonstrates that life did not just accidentally “pop up” on our planet, but that Earth was a place specifically tagged for this. He demonstrates how the Mayan Calendar describes different quantum states of the Tree of Life and presents a new explanation for the origin and evolution of consciousness. Calleman uses his scientific background in biology and cosmology to show that the idea of the Purposeful Universe is real. He explains not only how DNA but also entire organisms have emerged in the image of the Tree of Life, a theory that has wide-ranging consequences not only for medicine but also for the origin of sacred geometry and the human soul. With this new theory of biological evolution the divide between science and religion disappears.

A radical new understanding of the brain and how it works.

The possibility of direct interfacing between biological and technological information devices could result in a merger of mind and machine - Ultimate Computing. This book, a thorough consideration of this idea, involves a number of disciplines, including biochemistry, cognitive science, computer science, engineering, mathematics, microbiology, molecular biology, pharmacology, philosophy, physics, physiology, and psychology.

First published in 1202, Fibonacci's *Liber Abaci* was one of the most important books on mathematics in the Middle Ages, introducing Arabic numerals and methods throughout Europe. This is the first translation into a modern European language, of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods.

"Anatomia clavus et clavis medicinae est." Anatomy is a fundamental science that studies the structure of the human body from ancient times. Over time, the discipline constantly expands with recent progress that has been produced in researching the human body. So, new methods of researching were incorporated in the anatomy development: plastic materials injections, plastination, computed techniques of sectional bodies, and embryology. Anatomic sections like macroscopic, mesoscopic, microscopic, and public anatomies; radiologic anatomy; computed anatomy; radiologic anatomies; and clinical anatomy contribute to realize a very complex discipline that represents the base of learning medicine.

Guide to become cartoonist is made for people with different level of understanding, every part are shown in different level of examples making sure any one method will become your muscle memory in short time. High magazine quality pages for easy reading and self explanatory high quality images which can be understood by all age groups, no matter if

your new to Art or trying to learn this book will help you learn fast in easy ways. I have given examples human anatomy, basic Perspectives and How to use Golden ratio to your art in cartoonish way and realistic ways when you understand both your skills will improve fast in no time you start to create your own beautiful characters. Perfect gift for kids.

In this invaluable book, the basic mathematical properties of the golden ratio and its occurrence in the dimensions of two- and three-dimensional figures with fivefold symmetry are discussed. In addition, the generation of the Fibonacci series and generalized Fibonacci series and their relationship to the golden ratio are presented. These concepts are applied to algorithms for searching and function minimization. The Fibonacci sequence is viewed as a one-dimensional aperiodic, lattice and these ideas are extended to two- and three-dimensional Penrose tilings and the concept of incommensurate projections. The structural properties of aperiodic crystals and the growth of certain biological organisms are described in terms of Fibonacci sequences.

Leonardo da Vinci was one of history's true geniuses, equally brilliant as an artist, scientist, and mathematician. Readers of *The Da Vinci Code* were given a glimpse of the mysterious connections between math, science, and Leonardo's art. *Math and the Mona Lisa* picks up where *The Da Vinci Code* left off, illuminating Leonardo's life and work to uncover connections that, until now, have been known only to scholars. Bülent Atalay, a distinguished scientist and artist, examines the science and mathematics that underlie Leonardo's work, paying special attention to the proportions, patterns, shapes, and symmetries that scientists and mathematicians have also identified in nature. Following Leonardo's own unique model, Atalay searches for the internal dynamics of art and science, revealing to us the deep unity of the two cultures. He provides a broad overview of the development of science from the dawn of civilization to today's quantum mechanics. From this base of information, Atalay offers a fascinating view into Leonardo's restless intellect and *modus operandi*, allowing us to see the source of his ideas and to appreciate his art from a new perspective.

This is a cultural history of mathematics and art, from antiquity to the present. Mathematicians and artists have long been on a quest to understand the physical world they see before them and the abstract objects they know by thought alone. Taking readers on a tour of the practice of mathematics and the philosophical ideas that drive the discipline, Lynn Gamwell points out the important ways mathematical concepts have been expressed by artists. Sumptuous illustrations of artworks and cogent math diagrams are featured in Gamwell's comprehensive exploration. Gamwell begins by describing mathematics from antiquity to the Enlightenment, including Greek, Islamic, and Asian mathematics. Then focusing on modern culture, Gamwell traces mathematicians' search for the foundations of their science, such as David Hilbert's conception of mathematics as an arrangement of meaning-free signs, as well as artists' search for the essence of their craft, such as Aleksandr Rodchenko's monochrome paintings. She shows that self-reflection is inherent to the practice of both modern mathematics and art, and that this introspection points to a deep resonance between the two fields: Kurt Gödel posed questions about the nature of mathematics in the language of mathematics and Jasper Johns asked "What is art?" in the vocabulary of art. Throughout, Gamwell describes the personalities and cultural environments of a multitude of mathematicians and artists, from Gottlob Frege and Benoît Mandelbrot to Max Bill and Xu Bing. *Mathematics and Art* demonstrates how mathematical ideas are embodied in the visual arts and will enlighten all who are interested in the complex intellectual pursuits, personalities, and cultural settings that connect these vast disciplines.

This is an essential aid in the initial design and planning of a project. The relevant building type is located by a comprehensive index and cross reference system, a condensed commentary covers user requirements, planning criteria, basic dimensions and other considerations of function, siting aspect etc. A system of references based on an extensive bibliography supports the text. In every section plans, sections, site layouts, design details and graphs illustrated key aspects of a building type's design. Most illustrations are dimensioned or scaled - the metric system of measurement is used throughout, and the equivalent in feet/inches can easily be read either off a graphic scale on the page or from the built-in conversion table. The illustrations are international in origin and include both well know and less famous designers. *Architects Data* is primarily a handbook of building types rather than of construction techniques and details. However its treatment of components (such as doors and windows) and of spaces for building services is extremely thorough, since consideration of this data is an essential element of the planning process. The opening pages of basic data on man and his buildings cover critical subjects such as scale, drawing practice, noise, light and space for the same reason. Particular attention has also been paid to the implications of energy conservation, means of escape from fire and the needs of the elderly and the disabled.

The desire for harmony is universal among all cultures. In "Infinite Measure," we rediscover a fundamental starting point for designers of all ages: the simple act of drawing with a compass and a rule can sensitize the designer to the rich subtleties of spatial harmony, no matter how one ultimately chooses to express it.

Topics in Mathematical Modeling is an introductory textbook on mathematical modeling. The book teaches how simple mathematics can help formulate and solve real problems of current research interest in a wide range of fields, including biology, ecology, computer science, geophysics, engineering, and the social sciences. Yet the prerequisites are minimal: calculus and elementary differential equations. Among the many topics addressed are HIV; plant phyllotaxis; global warming; the World Wide Web; plant and animal vascular networks; social networks; chaos and fractals; marriage and divorce; and El Niño. Traditional modeling topics such as predator-prey interaction, harvesting, and wars of attrition are also included. Most chapters begin with the history of a problem, follow with a demonstration of how it can be modeled using various mathematical tools, and close with a discussion of its remaining unsolved aspects. Designed for a one-semester course, the book progresses from problems that can be solved with relatively simple mathematics to ones that require more sophisticated methods. The math techniques are taught as needed to solve the problem being addressed, and each chapter is designed to be largely independent to give teachers flexibility. The book, which can be used as an

overview and introduction to applied mathematics, is particularly suitable for sophomore, junior, and senior students in math, science, and engineering.

To celebrate the 50th anniversary of the founding of the Institute of Mathematics and its Applications (IMA), this book is designed to showcase the beauty of mathematics - including images inspired by mathematical problems - together with its unreasonable effectiveness and applicability, without frying your brain.

A comprehensive and fascinating study of Polarity Therapy, Esoteric Anatomy, and Somatic Psychology that reveals the vital role of energy in the healing arts. Esoteric Anatomy offers a spiritual approach to massage, bodywork, and somatic psychology, demystifying an ancient transpersonal model for understanding energy in nature and working with consciousness in the healing arts. It offers a comprehensive health care system based on understanding the body as a field of conscious energy—a system that promotes healing, health building, and self-actualization. Author and spiritual healer Bruce Burger begins by introducing Polarity Therapy in a series of energy-balancing sessions that can be used in conjunction with other forms of therapy and bodywork. This holistic approach can alleviate physical, mental, emotional, and spiritual suffering, including clearing trauma from the cellular memory of the brain. Next, he turns his attention to Esoteric Anatomy in a section of essays that explore the role of energy—or life force—in the healing arts, drawing from the wisdom of ancient India. And finally, Burger builds upon his studies of Polarity Therapy and Esoteric Anatomy to present a unique system of Somatic Psychology that can promote further healing. Thorough, insightful, and complete with illustrations, Esoteric Anatomy is a fascinating course in energy medicine that can guide you toward better health, personal growth, and spiritual transformation.

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.

This book provides a means of comprehensively grounding and considering the epistemological and philosophical underpinnings of practice-based research epistemologies. By introducing readers to the diverse array of methodological tools and concepts that are necessary to underpin postgraduate research, this book develops an understanding of the distinctions between practice-led research, practice-based research and question-led research, and the contextual significance of each, as well as enabling students to comprehend the historical relationships between academic disciplines and the value of reconnecting them at an epistemological and philosophical level. Through illustrated examples from applied practice across disciplines such as art, social sciences and medical and allied healthcare sciences, readers are encouraged to develop the capacity to not only think conceptually about their own research, but to systematically evaluate that of others. With this focus on descriptive studies from practice, the book fosters higher-order critical thinking in relation to implications for methodological implementation, encouraging deep learning processes and the confidence to transcend the limits of one's own discipline in order to work collaboratively with researchers in different fields.

Only someone who is both a successful trader and a successful writer could pull off what Constance Brown has accomplished in this book: distilling Fibonacci analysis to two hundred or so comprehensive, clearly written, eminently practical pages. Brown knows exactly what a professional trying to come up to speed on a new trading tool needs and she provides it, covering what Fibonacci analysis is, how it works, where it comes from, pitfalls and dangers, and, of course, how to use it. Basic trading strategies are touched upon in virtually every chapter. Fibonacci analysis is one of the most popular technical analysis tools, yet it is often used incorrectly. Brown quickly clears up common misconceptions and moves on to show, step by step, the correct way to apply the technique in any market. Those with Fibonacci analysis software will learn how to use it with maximum effectiveness; those without will chart the market the old-fashioned way. All will find answers to the trader's most important questions: Where is the market going? At what level should my stop be entered? Based on the size of my trading account, how much should I leverage into a trading position? Can I tell if I am in trouble before my stop is hit? How much should I buy or sell if given a second or third opportunity? Occasional references to other tools—including Elliott Wave, W.D. Gann, and candlestick charts—and an extensive bibliography make this book richer for accomplished technical analysts without confounding the less experienced. Plentiful real-life examples and dozens of carefully annotated charts insure every reader will get maximum value from every minute spent with this book. Gold Medal Winner (tie), Investing Category, Axiom Business Book Awards (2009) Winner: Book Series Cover Design, The Bookbinders Guild of New York/2009 New York Book Show Awards

This volume is based upon the presentations made at an international conference in London on the subject of 'Fractals and Chaos'. The objective of the conference was to bring together some of the leading practitioners and exponents in the overlapping fields of fractal geometry and chaos theory, with a view to exploring some of the relationships between the two domains. Based on this initial conference and subsequent exchanges between the editors and the authors, revised and updated papers were produced. These papers are contained in the present volume. We thank all those who contributed to this effort by way of planning and organisation, and also all those who helped in the production of this volume. In particular, we wish to express our appreciation to Gerhard Rossbach, Computer Science Editor, Craig Van Dyck, Production Director, and Nancy A. Rogers, who did the typesetting. A. J. Crilly R. A. Earnshaw H. Jones 1 March 1990 Introduction Fractals and Chaos The word 'fractal' was coined by Benoit Mandelbrot in the late 1970s, but objects now defined as fractal in form have been known to artists and mathematicians for centuries. Mandelbrot's definition—"a set whose Hausdorff dimension is not an integer"—is clear in mathematical terms. In addition, related concepts are those of self-similarity and sub-divisibility. A fractal object is self-similar in that subsections of the object are similar in some sense to the whole object.

A colorful square, dissected into four parts, with hinges marked in black. If you leave the blue piece fixed and swing the others around their hinges, a new shape will emerge. Can you guess just by looking what it will be? This is just one of the tricky geometrical gems that will make a puzzler's mind work overtime. Try drawing a set of variously shaped polygons using only a compass and a ruler (no measuring allowed!), figuring out which of two sculptures is bigger (logic alone won't give you the answer), and lots more.

We are entering the era of big data, and machine learning can be used to analyze this deluge of data automatically. Machine learning has been used to solve many interesting and often difficult real-world problems, and the biometrics is one of the leading applications of machine learning. This book introduces some new techniques on biometrics and machine learning, and new proposals of using machine learning techniques for biometrics as well. This book consists of two parts: "Biometrics" and "Machine Learning for Biometrics." Parts I and II contain four and three chapters, respectively. The book is reviewed by editors: Prof. Jucheng Yang, Prof. Dong Sun Park, Prof. Sook Yoon, Dr. Yarui Chen, and Dr. Chuanlei Zhang.

Throughout history, thinkers from mathematicians to theologians have pondered the mysterious relationship between

numbers and the nature of reality. In this fascinating book, Mario Livio tells the tale of a number at the heart of that mystery: phi, or 1.6180339887... This curious mathematical relationship, widely known as "The Golden Ratio," was discovered by Euclid more than two thousand years ago because of its crucial role in the construction of the pentagram, to which magical properties had been attributed. Since then it has shown a propensity to appear in the most astonishing variety of places, from mollusk shells, sunflower florets, and rose petals to the shape of the galaxy. Psychological studies have investigated whether the Golden Ratio is the most aesthetically pleasing proportion extant, and it has been asserted that the creators of the Pyramids and the Parthenon employed it. It is believed to feature in works of art from Leonardo da Vinci's Mona Lisa to Salvador Dali's The Sacrament of the Last Supper, and poets and composers have used it in their works. It has even been found to be connected to the behavior of the stock market! The Golden Ratio is a captivating journey through art and architecture, botany and biology, physics and mathematics. It tells the human story of numerous phi-fixated individuals, including the followers of Pythagoras who believed that this proportion revealed the hand of God; astronomer Johannes Kepler, who saw phi as the greatest treasure of geometry; such Renaissance thinkers as mathematician Leonardo Fibonacci of Pisa; and such masters of the modern world as Goethe, Cezanne, Bartok, and physicist Roger Penrose. Wherever his quest for the meaning of phi takes him, Mario Livio reveals the world as a place where order, beauty, and eternal mystery will always coexist.

Guide to become cartoonist is made for people with different level of understanding, every subjects are shown in different examples making sure any one will become your muscle memory in short time. High magazine quality pages for easy reading and self explanatory high quality images which can be understood by all age groups, no matter if your new to art or trying to learn this book will help you learn fast in easy ways. I have given examples human anatomy, basic Perspectives and How to use Golden ratio to your art, in cartoonish way and realistic way when you understand both your skills will improve fast in no time you start to create your own beautiful characters.

Physical Chemistry: Concepts and Theory provides a comprehensive overview of physical and theoretical chemistry while focusing on the basic principles that unite the sub-disciplines of the field. With an emphasis on multidisciplinary, as well as interdisciplinary applications, the book extensively reviews fundamental principles and presents recent research to help the reader make logical connections between the theory and application of physical chemistry concepts. Also available from the author: Physical Chemistry: Multidisciplinary Applications (ISBN 9780128005132). Describes how materials behave and chemical reactions occur at the molecular and atomic levels Uses theoretical constructs and mathematical computations to explain chemical properties and describe behavior of molecular and condensed matter Demonstrates the connection between math and chemistry and how to use math as a powerful tool to predict the properties of chemicals Emphasizes the intersection of chemistry, math, and physics and the resulting applications across many disciplines of science

This book offers an integrated interpretative analysis of the major thematic aspects of the English fourteenth-century romance Sir Gawain and the Green Knight. The chief aim of author Piotr Sadowski is to look at the contents of the narrative in their entirety and to take full advantage of the poem's exceptional and widely praised harmony of structure and design. Within that design, Sadowski focuses on the poem's presentation of the main protagonist and his adventures, seen first of all as a generalized metaphor of the human life understood as a spiritual quest, and, in a more historical sense, as an expression and critique of certain ideals, values, and anxieties that characterized the late medieval institutions of the court, chivalry, and the Church. Sadowski built the interpretive framework of Sir Gawain from an eclectic theoretical base that he believes is most valuable and useful in approaching medieval literature. The main focus of the study remains the literary text itself, created by an author who communicates his view of the world through the poem.

Why are only certain people considered physically beautiful? What is it - specifically - within their anatomy that these lucky few individuals possess that most of us simply do not? Can we somehow objectively test our own anatomy for beauty and then use our test results as a guide to change our physical appearance? Can we join this highly elite group of physically beautiful people? Dr. Andrew Hayduke's groundbreaking book is the first of its kind to explore a potential scientific explanation for why only certain faces and breasts appear physically beautiful. After decades of experience as a plastic surgeon in Beverly Hills and Palm Springs, California, Dr. Hayduke shares his unique perspective on this fascinating subject. The Golden Ratio Within the Human Face and Breast unveils the mysterious underlying secret blueprint for human physical beauty that exists hidden deep within the anatomic layout of attractive (i.e., beautiful) faces and breasts. The Golden Ratio Within the Human Face and Breast will: 1) Convince you to look beyond the expression "Beauty is in the eye of the beholder" and consider something far more intriguing as the true explanation for physical beauty. 2) Provide evidence that beauty is an objective quality rather than a mere subjective opinion. 3) Provide an all-access backstage pass to the secret clinical analysis methodologies used by a Beverly Hills plastic surgeon. 4) Illustrate how the faces and breasts of average-looking people can be transformed to a more beautiful appearance with the help of Dr. Hayduke's state-of-the-art facial and breast beauty tests. 5) Disclose a detailed description of the once-secret inner mechanism of both the Hayduke Facial Analysis test and the Hayduke Breast Analysis test-including the exact specifications of each anatomic test grid used within Dr. Hayduke's patented beauty analysis methodologies. 6) Explain the basics of the golden ratio (also known as the divine proportion, golden section, golden mean, golden proportion, divine section and golden number). 7) Illustrate how the golden ratio relationship of 1.618 to 1.0 is secretly hidden within many beautiful world-famous works of art, architecture, logos, and even nature.

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