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## MATHEWS EMELY

**Hexaflexagons, Probability Paradoxes, and the Tower of Hanoi** Courier Corporation  
Ancient Future celebrates the wisdom of those ancient civilizations that did not disassociate the philosophical, spiritual, and material realms of life. This book is an attempt to re-create this holistic experience in hopes that a synthesized view of life will become reality in the 21st century.

**The Geometry Code** Simon and Schuster

The Fifty-Nine Icosahedra was originally published in 1938 as No. 6 of "University of Toronto Studies (Mathematical Series)". Of the four authors, only Coxeter and myself are still alive, and we two are the authors of the whole text of the book, in which any signs of immaturity may perhaps be regarded leniently on noting that both of us were still in our twenties when it was written. Neither of the others was a professional mathematician. Flather died about 1950, and Petrie, tragically, in a road accident in 1972. Petrie's part in the book consisted in the extremely difficult drawings which constitute the left half of each of the plates (the much simpler ones on the right being mine). A brief biographical note on Petrie will be found on p. 32 of Coxeter's *Regular Polytopes* (3rd. ed., Dover, New York, 1973); and it may be added that he was still a schoolboy when he discovered the regular skew polygons that are named after him, and are the occasion for the note on him in Coxeter's book. (Coxeter also was a schoolboy when some of the results for which he will be most remembered were obtained; he and Petrie were schoolboy friends and used to work together on polyhedron and polytope theory.) Flather's part in the book consisted in making a very beautiful set of miniature models of all the fifty-nine figures. These are still in existence, and in excellent preservation.

**Lectures on the Icosahedron and the Solution of Equations of the Fifth Degree** World Scientific

Math is the foundation of all sciences and key to understanding the world around us. Math Games Lab for Kids uses over fifty hands-on activities to make learning a variety of math concepts fun and easy for kids. Make learning math fun by sharing these hands-on labs with your child. Math Games Lab for Kids presents more than 50 activities that incorporate coloring, drawing, games, and making shapes to make math more than just numbers. With Math Games Lab for Kids, kids can: Explore geometry and topology by making prisms, antiprisms, Platonic solids, and Möbius strips. Build logic skills by playing and strategizing through tangrams, toothpick puzzles, and the game of Nim. Draw and chart graphs to learn the language of connections. Discover how to color maps like a mathematician by using the fewest colors possible. Create mind bending fractals with straight lines and repeat shapes. And don't worry about running to the store for expensive supplies! Everything needed to complete the activities can be found in the book or around the house. Math is more important than ever. Give your child a great experience and solid foundation with Math Games Lab for Kids.

**Mathematical Origami** Cambridge University Press

This is the first book dedicated to Leonardo da Vinci's commission for *The Virgin of the Rocks*. Leonardo completed fewer than twenty paintings in his lifetime, yet he returned twice to this same mysterious subject over the course of a twenty-five year period. Identical in terms of iconography, stylistically these paintings are worlds apart. The first, of c.1482-4, was Leonardo's magnum opus, catapulting the young artist from obscurity to fame. When, in 1508, he finished the second painting, he was nearing the end of his artistic career and had become an international celebrity. Why did he revisit *The Virgin of the Rocks*? What was the meaning behind the cavernous subterranean landscape? What lies behind the colder monumentality of the second version? This book opens up Leonardo's world, setting the scene in Republican Florence and the humanist court of the Milanese warlord Ludovico Sforza, to answer these questions. Through lyrical yet scholarly analyses of Leonardo's paintings, notebooks and technical experimentation, it unveils the secret realms of human dissection and Neo-Platonic philosophy that inspired the creation of the two masterpieces. In doing so, the book reveals that *The Virgin of the Rocks* holds the key to the greatest philosophical, scientific and personal transformations of Leonardo's life. Images and links to figures are available at [www.virginoftherocks.com](http://www.virginoftherocks.com).

**Emerging Topics in Physical Virology** Tessellations

The book focuses on the inauguration of the New Great Egyptian Museum, in which the death mask of Pharaoh Tutankhamun is stolen. The archeology professor Thomas Dee will begin his search throughout Egypt and some cities of the Muslim world, together with the South African journalist Anne Lein. The plot suspects the black market of anti-grand theft, a Catholic Cardinal and several magnates as potential buyers. In the search they visit Vatican City, Luxor, Abu Dhabi, Southeast Asia, Sudan, Ethiopia, Morocco, the Greek islands of Skopio, Mykonos, Santorini and the Alhambra itself in Spain.

**Let's Play Math** iUniverse

This graduate-level text gives a thorough overview of the analysis of Boolean functions, beginning with the most basic definitions and proceeding to advanced topics.

**Spherical Models** Elysian Publishing

The first of fifteen updated editions of the collected *Mathematical Games* of Martin Gardner, king of recreational mathematics.

**Hand or Simple Turning** Black Classic Press

Presents nanobiotechnology in drug delivery and disease management. Featuring contributions from noted experts in the field, this book highlights recent advances in the nano-based drug delivery systems. It also covers the diagnosis and role of various nanomaterials in the management of infectious diseases and non-infectious disorders, such as cancers and other malignancies and their role in future medicine. *Nanobiotechnology in Diagnosis, Drug Delivery and Treatment* starts by introducing how nanotechnology has revolutionized drug delivery, diagnosis, and treatments of diseases. It then focuses on the role of various nanocomposites in diagnosis, drug delivery, and treatment of diseases like cancer, Alzheimer's disease, diabetes, and many others. Next, it discusses the application of a variety of nanomaterials in the diagnosis and management of gastrointestinal tract disorders. The book explains the concept of nanotheranostics in detail and its role in effective monitoring of drug response, targeted drug delivery, enhanced drug accumulation in the target tissues, sustained as well as triggered release of drugs, and reduction in adverse effects. Other chapters cover aptamer-incorporated nanoparticle systems; magnetic nanoparticles; theranostics and vaccines; toxicological concerns of nanomaterials used in nanomedicine; and more. Provides a concise overview of state-of-the-art nanomaterials and their application like drug delivery in

infectious diseases and non-infectious disorders. Highlights recent advances in the nano-based drug delivery systems and role of various nanomaterials. Introduces nano-based sensors which detect various pathogens. Covers the use of nanodevices in diagnostics and theranostics.

*Nanobiotechnology in Diagnosis, Drug Delivery and Treatment* is an ideal book for researchers and scientists working in various disciplines such as microbiology, biotechnology, nanotechnology, pharmaceutical biotechnology, pharmacology, pharmaceuticals, and nanomedicine.

**Spherical Models** Tarquin Group

It's the last day of school before Christmas vacation and Alex, Chase, and the rest of Mrs. Walter's fifth-grade class couldn't wish more for the final bell to ring. But the day takes a crazy turn when a mysterious meteorite crashes through the classroom window—and a genie pops out! Bob, as he's called, is willing to grant only one wish for the class to share, and if they can't agree on something before the bell rings in an hour, they'll get nothing at all. What follows is a debate that is at turns thought-provoking and hilarious—and at all times irresistible.

**Platonic & Archimedean Solids** American Mathematical Soc.

Written by a world expert on the subject, *Origami* is the first complete reference on the mathematics of origami. It is an essential reference for researchers of origami mathematics and applications in physics, engineering, and design. Educators, students, and enthusiasts will also enjoy this fascinating account of the mathematics of folding.

**Leonardo da Vinci and The Virgin of the Rocks** Courier Corporation

*Emerging Topics in Physical Virology* is a state-of-the-art account of recent advances in the experimental analysis and modeling of structure, function and dynamics of viruses. It is the first interdisciplinary book that integrates a review of relevant experimental techniques, such as cryo-electron microscopy, atomic force microscopy and mass spectrometry with the latest results on the biophysical and mathematical modeling of viruses. The book comprehensively covers the structure and physical properties of the protein envelopes that encapsulate and hence protect the delicate viral genome, their assembly and disassembly, the organization of the viral genome, infection, evolution, as well as applications of viruses in Biomedical Nanotechnology. It is an essential primer for scientists working in all aspects of virology, including the increasing use of viruses and virus-like particles in bio- and nano-technology. Its review style makes it moreover suitable for non-experts as an introduction into this exciting research area.

**Olafur Eliasson** Wellfleet

Polyhedra have cropped up in many different guises throughout recorded history. In modern times, polyhedra and their symmetries have been cast in a new light by combinatorics and group theory. This book comprehensively documents the many and varied ways that polyhedra have come to the fore throughout the development of mathematics. The author strikes a balance between covering the historical development of the theory surrounding polyhedra, and presenting a rigorous treatment of the mathematics involved. It is attractively illustrated with dozens of diagrams to illustrate ideas that might otherwise prove difficult to grasp. Historians of mathematics, as well as those more interested in the mathematics itself, will find this unique book fascinating.

**Making Geometry** Cornell University Press

*Virgin Mary Apparitions. UFO Sightings. Crop Circles.* What do these have in common? Earth-energies expert Richard Leviton is convinced that these three seemingly distinct phenomena are all interconnected. And, he insists, the signs indicate something very real and very important is happening: we're fast approaching the end of the world as we know it—and that might not be such a bad thing. In *Signs on the Earth*, Leviton combines newspaper and firsthand accounts with his own intuitive research to examine the exploding number of such reports from around the world. He focuses his study by selecting a handful of Marian apparition sites, including Lourdes, Fatima, Medjugorje, and others, as well as UFO hot spots such as California's Topanga Canyon and the Hudson River Valley. For his investigation of the crop circle phenomenon, Leviton takes you Wiltshire, England, an area he calls the crop circle mecca. Encouraging you to think of the Earth as a cosmic bulletin board, Leviton believes that these phenomena are messages from the galaxy and the spiritual worlds offering us an unprecedented opportunity to enter the next level of reality. *Signs on the Earth* shows that these signs are literally directions to a 3-step process for looking within as well as beyond yourself, and unlocking your vast spiritual potential.

**American Scientist** John Wiley & Sons

The ultimate beginner's handbook! Sew 36 quilt blocks with ideas and methods for setting the blocks into a quilt.

**A Geometric Analysis of the Platonic Solids and Other Semi-Regular Polyhedra** Courier Corporation

Polyhedra allow geometric shapes in the plane to become solids in our three-dimensional world. Tessellations in which individual tiles are lifelike motifs are a fun combination of art and mathematics. *Designing and Building Tessellated Polyhedra* brings these two fascinating topics together in a hands-on learning experience rich in math content. Nets for 24 different polyhedra, including all of the Platonic and Archimedean solids, are presented both with and without tessellations applied to them. This allows polyhedra to be built with ready-made designs that can be colored if desired, or printed in beautiful color using the included CD. Another option is building undecorated polyhedra that have the names and key properties printed on them. Yet another possibility is to use templates to design new tessellations that can be applied to the polyhedra. The book also contains background on polyhedra and templates for tessellated cones, cylinders, and Möbius strips. For classroom use, ten activities with worksheets, designed to address ten different specific Common Core State Standards for Mathematics are included as well. Ages 12-17

**The Christmas Genie** John Wiley & Sons

A TeXas Style Introduction to Proof is an IBL textbook designed for a one-semester course on proofs (the "bridge course") that also introduces TeX as a tool students can use to communicate their work. As befitting "textless" text, the book is, as one reviewer characterized it, "minimal." Written in an easy-going style, the exposition is just enough to support the activities, and it is clear, concise, and effective. The book is well organized and contains ample carefully selected exercises that are varied, interesting, and probing, without being discouragingly difficult.

**Drawing Circle Images** Bloomsbury Publishing USA

Mereon is an approach to the unification of knowledge that relies on whole systems modelling. It is a scientific framework that charts the sequential, emergent growth process of systems. A dynamic structure, Mereon provides insight and a new approach to General Systems Theory and non-linear science. Mereon evolved through a new approach to polyhedral geometry and topology that is

related to the dynamics of the polyhedra. It is related to a large number of systems, physical, mathematical, and philosophical. In linking these systems, Mereon provides access to new relationships among them and combines geometric and process thinking. This book provides the fundamentals of such connections for an ongoing search for order, directionality, and diversity that is found in this unity. It is written in clear language that manages to connect diverse disciplines and in doing so, makes a complex system easily accessible and understandable. It will be of interest to mathematicians, geneticists, and all those interested in researching unity in science and astrobiology. Elaborates on several important aspects of General Systems Theory including nonlinearity. Each chapter is self-contained and explained relative to Mereon, providing references to scientific findings that are congruent with or expanded by Mereon. Offers a new way of modelling that can be applied across the sciences.

**Origametry** Cambridge University Press

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 Golden Mask of King Tut The Code OUP Oxford

Preceded by Textbook of musculoskeletal medicine / edited by Michael Hutson and Richard Ellis, 2006.

**Crystal Magic** Courier Corporation

Well-illustrated, practical approach to creating star-faced spherical forms that can serve as basic structures for geodesic domes. Complete instructions for making models from circular bands of paper with just a ruler and compass. 1979 edition.