

Problems For Metagrobologists A Collection Of Puzzles With Real Mathematical Logical Or Scientific Content Problem Solving In Mathematics And Beyond

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The Cube - David Singmaster 2009

Explains the history of the Rubik's Cube, shares puzzles from around the world based on the same principles, and offers new puzzles and solutions for cubes ranging from 2x2x2 to 7x7x7.

Central European Olympiad, A: The Mathematical Duel -

Geretschlag Robert 2017-11-29

This book contains the most interesting problems from the first 24 years of the "Mathematical Duel," an annual international mathematics competition between the students of four schools: the Gymnázium Mikuláše Koperníka in Bílovec, Czech Republic, the Akademicki Zespół Szkół Ogólnokształcących in Chorzów, Poland, the Bundesrealgymnasium Kepler in Graz, Austria and the Gymnázium Jakuba Škody in Přerov, Czech Republic. The problems are presented by topic, grouped under the headings Geometry, Combinatorics, Number Theory and Algebra, which is typical for olympiad-style competitions. Above all, it is of interest to students preparing for mathematics competitions as well as teachers looking for material to prepare their students, as well as mathematically interested enthusiasts from all walks of life looking for an intellectual challenge. Contents: Introduction Number

Theory Algebra Combinatorics Geometry 4! Years of Problems Readership: General public, students and teachers preparing for olympiad-style mathematical competitions Keywords: Mathematics Competition; Problem Solving Review: Key Features: The wide selection of problems makes it especially interesting for students and teachers preparing for olympiad-style mathematical competitions The participants in this particular competition range in age from 13 to 18, and the problems are created with this wide range in mind Any interested reader is bound to find something interesting to suit their own level of experience

Problem-Solving Strategies in Mathematics - Alfred S Posamentier 2015-03-05

This book introduces ten problem-solving strategies by first presenting the strategy and then applying it to problems in elementary mathematics. In doing so, first the common approach is shown, and then a more elegant strategy is provided. Elementary mathematics is used so that the reader can focus on the strategy and not be distracted by some more sophisticated mathematics.

Creative Puzzles of the World - Pieter van Delft 1978

Can You Solve My Problems? - Alex Bellos 2017-03-21

Puzzle lovers, rejoice! Bestselling math writer Alex Bellos has a challenge for you: 125 of the world's best brainteasers from the last two millennia. Armed with logic alone, you'll detect counterfeit coins, navigate river crossings, and untangle family trees. Then—with just a dash of high school math—you'll tie a rope around the Earth, match wits with a cryptic wizard, and use four 4s to create every number from 1 to 50. (It can be done!) The ultimate casebook for daring puzzlers, *Can You Solve My Problems?* also tells the story of the puzzle—from ancient China to Victorian England to modern-day Japan. Grab your pencil and get puzzling!

The Bogotá Puzzles - Bernardo Recamán 2020-10-14

A Colombian mathematician and professor assembled these 80 brainteasers while living in Bogotá, forming a stimulating collection of word problems, puzzles involving chess pieces, sudoku-style challenges, other math-based diversions. Solutions.

Can You Solve My Problems? - Alex Bellos 2017-07-06

Are you smarter than a Singaporean ten-year-old? Can you beat Sherlock

Holmes? If you think the answer is yes - I challenge you to solve my problems. Here are 125 of the world's best brainteasers from the last two millennia, taking us from ancient China to medieval Europe, Victorian England to modern-day Japan, with stories of espionage, mathematical breakthroughs and puzzling rivalries along the way. Pit your wits against logic puzzles and kinship riddles, pangrams and river-crossing conundrums. Some solutions rely on a touch of cunning, others call for creativity, others need mercilessly logical thought. Some can only be solved by 2 per cent of the population. All are guaranteed to sharpen your mind. Let's get puzzling!

Fields Medallists' Lectures -

The Best Writing on Mathematics 2016 - Mircea Pitici 2017-02-14

The year's finest mathematics writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, *The Best Writing on Mathematics 2016* makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday occurrences of math, and take readers behind the scenes of today's hottest mathematical debates. Here Burkard Polster shows how to invent your own variants of the Spot It! card game, Steven Strogatz presents young Albert Einstein's proof of the Pythagorean Theorem, Joseph Dauben and Marjorie Senechal find a treasure trove of math in New York's Metropolitan Museum of Art, and Andrew Gelman explains why much scientific research based on statistical testing is spurious. In other essays, Brian Greene discusses the evolving assumptions of the physicists who developed the mathematical underpinnings of string theory, Jorge Almeida examines the misperceptions of people who attempt to predict lottery results, and Ian Stewart offers advice to authors who aspire to write successful math books for general readers. And there's much, much more. In addition to presenting the year's most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor, Mircea Pitici. This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.

The Ten Riddles of Eartha Quicksmith - Loris Owen 2020-09-10

When puzzle-loving Kip Bramley receives a cryptic invitation, delivered by a beetle-shaped drone that appears to be breathing, he has no idea that his world is about to change forever. Very soon he finds himself at Quicksmiths College of Strange Energy, hunting for riddles set 400 years earlier by a mysterious genius. But this isn't any ordinary treasure hunt: as the clock counts down, Kip will need all the help he can get from his loyal new friends and his faithful pet flying squirrel, Pinky. With danger mounting, it seems much more is at stake for Kip and his family than he could ever have imagined. Welcome to the dazzling new world of Quicksmiths, where you will encounter Strange Energy, the Mowl, Wormholes, Dark Forces and the tantalising riddle of the Ark of Ideas. A thrilling debut, full of danger, magic and friendship. First in the Quicksmiths series.

Geschichte Der Elementar-Mathematik in Systematischer Darstellung - Johannes Tropicke 2019-02-28

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and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Essentials of Mathematical Thinking - Steven G. Krantz 2017-10-06
Essentials of Mathematical Thinking addresses the growing need to better comprehend mathematics today. Increasingly, our world is driven by mathematics in all aspects of life. The book is an excellent introduction to the world of mathematics for students not majoring in mathematical studies. The author has written this book in an enticing, rich manner that will engage students and introduce new paradigms of thought. Careful readers will develop critical thinking skills which will help them compete in today's world. The book explains: What goes behind a Google search algorithm How to calculate the odds in a lottery The value of Big Data How the nefarious Ponzi scheme operates
Instructors will treasure the book for its ability to make the field of mathematics more accessible and alluring with relevant topics and helpful graphics. The author also encourages readers to see the beauty of mathematics and how it relates to their lives in meaningful ways.

The Joy of Mathematics - Alfred S. Posamentier 2017

Arithmetic novelties -- Algebraic explanations of accepted concepts -- Geometric curiosities -- Probability applied to everyday experiences -- Common sense from a mathematical perspective

The Big Book of Simplex Crosswords - Mary O'Brien 2009-07-13

The Simplex Crossword formula has been hugely successful and made bestsellers of Books 1 to 6. Appearing daily in the Irish Times for over forty years, the crossword has attracted a devoted following. The Big Book of Simplex Crosswords combines the first two bestselling titles in the Simplex series in a new edition. Great value for crossword-addicts everywhere!

ICGG 2020 - Proceedings of the 19th International Conference on Geometry and Graphics - Liang-Yee Cheng 2020-12-01

This book covers various aspects of Geometry and Graphics, from recent achievements on theoretical researches to a wide range of innovative applications, as well as new teaching methodologies and experiences, and reinterpretations and findings about the masterpieces of the past. It is from the 19th International Conference on Geometry and Graphics, which was held in São Paulo, Brazil. The conference started in 1978 and is promoted by the International Society for Geometry and Graphics, which aims to foster international collaboration and stimulate the scientific research and teaching methodology in the fields of Geometry and Graphics. Organized five topics, which are Theoretical Graphics and Geometry; Applied Geometry and Graphics; Engineering Computer Graphics; Graphics Education and Geometry; Graphics in History, the book is intended for the professionals, academics and researchers in architecture, engineering, industrial design, mathematics and arts involved in the multidisciplinary field.

Taking Sudoku Seriously - Jason Rosenhouse 2012-01-19

Packed with more than a hundred color illustrations and a wide variety of puzzles and brainteasers, Taking Sudoku Seriously uses this popular craze as the starting point for a fun-filled introduction to higher mathematics. How many Sudoku solution squares are there? What shapes other than three-by-three blocks can serve as acceptable Sudoku regions? What is the fewest number of starting clues a sound Sudoku puzzle can have? Does solving Sudoku require mathematics? Jason Rosenhouse and Laura Taalman show that answering these questions opens the door to a wealth of interesting mathematics. Indeed, they show that Sudoku puzzles and their variants are a gateway into mathematical thinking generally. Among many topics, the authors look at the notion of a Latin square--an object of long-standing interest to mathematicians--of which Sudoku squares are a special case; discuss how one finds interesting Sudoku puzzles; explore the connections between Sudoku, graph theory, and polynomials; and consider Sudoku extremes, including puzzles with the maximal number of vacant regions, with the minimal

number of starting clues, and numerous others. The book concludes with a gallery of novel Sudoku variations--just pure solving fun! Most of the puzzles are original to this volume, and all solutions to the puzzles appear in the back of the book or in the text itself. A math book and a puzzle book, Taking Sudoku Seriously will change the way readers look at Sudoku and mathematics, serving both as an introduction to mathematics for puzzle fans and as an exploration of the intricacies of Sudoku for mathematics buffs.

Wooden Puzzles - Brian Menold 2016-11-01

Wooden puzzles are great projects both for the woodworker who builds them and for the end user who'll derive hours of pleasure trying to solve them. They can be built from scraps of wood with just a few tools that any hobbyist woodworker will have in his or her shop. The key to successful puzzle-making is in maintaining a high level of accuracy so that puzzles go together (and come apart) smoothly and satisfyingly. Menold explains how to build a number of jigs that will allow you to make wooden puzzles to the same exacting tolerances that this master puzzle maker achieves with his collection of classic puzzles.

Mathematics Problem-Solving Challenges for Secondary School Students and Beyond - David Linker 2016-02-25

This book is a rare resource consisting of problems and solutions similar to those seen in mathematics contests from around the world. It is an excellent training resource for high school students who plan to participate in mathematics contests, and a wonderful collection of problems that can be used by teachers who wish to offer their advanced students some challenging nontraditional problems to work on to build their problem solving skills. It is also an excellent source of problems for the mathematical hobbyist who enjoys solving problems on various levels. Problems are organized by topic and level of difficulty and are cross-referenced by type, making finding many problems of a similar genre easy. An appendix with the mathematical formulas needed to solve the problems has been included for the reader's convenience. We expect that this book will expand the mathematical knowledge and help sharpen the skills of students in high schools, universities and beyond.

Contents:Arithmetic and

LogicAlgebraGeometryTrigonometryLogarithmsCountingNumber TheoryProbabilityFunctional Equations Readership: High school students, teachers and general public interested in exciting mathematics problems.

Mathematical Labyrinths. Pathfinding - Boris Pritsker 2021-01-04

Mathematical Labyrinths. Pathfinding provides an overview of various non-standard problems and the approaches to their solutions. The essential idea is a framework laid upon the reader on how to solve nonconventional problems — particularly in the realm of mathematics and logic. It goes over the key steps in approaching a difficult problem, contemplating a plan for its solution, and discusses set of mental models to solve math problems.The book is not a routine set of problems. It is rather an entertaining and educational journey into the fascinating world of mathematical reasoning and logic. It is about finding the best path to a solution depending on the information given, asking and answering the right questions, analyzing and comparing alternative approaches to problem solving, searching for generalizations and inventing new problems. It also considers as an important pedagogical tool playing mathematical and logical games, deciphering mathematical sophisms, and interpreting mathematical paradoxes.It is suitable for mathematically talented and curious students in the age range 10-20. There are many 'Eureka'- type, out of the ordinary, fun problems that require bright idea and insight. These intriguing and thought-provoking brainteasers and logic puzzles should be enjoyable by the audience of almost any age group, from 6-year-old children to 80-year-old and older adults.

Sam Loyd's Cyclopedia of 5000 Puzzles Tricks and Conundrums with Answers - Sam Loyd 2007-03

Sam Loyd (1841-1911) was the all time greatest inventor and developer of puzzles. He is described by Martin Gardner, the author of the "Mathematical Games" column in Scientific American, as "America's greatest puzzlist and an authentic American genius". His fame is world wide and books of his puzzles have been published in Russian and many other languages. This book, Sam Loyd's Cyclopedia of 5,000 Puzzles Tricks & Conundrums with Answers, was compiled by his son and published in 1914 after his death. Although many books have been written about some of Loyd's puzzles, this remains the most complete volume of all of his puzzles. This is considered to be the most fabulous and exciting collection of puzzles ever assembled in one volume. The puzzles come with wonderful illustrations.

The Puzzles of Nobuyuki Yoshigahara - Andy Liu 2020-12-23

This book convenes a selection of 200 mathematical puzzles with original solutions, all celebrating the inquisitive and inspiring spirit of Nobuyuki "Nob" Yoshigahara - a legend in the worldwide community of mathematical and mechanical puzzles. A graduate from the Tokyo Institute of Technology, Yoshigahara invented numerous mechanical puzzles and published over 80 puzzle books. In 2003, he was honored with the Sam Loyd Award, given by the Association for Games & Puzzles International to individuals who have been made a significant contribution to the world of mechanical puzzles. In this work, the reader will find some of the most ingenious puzzles ever created, organized in ten categories: Logic, matchstick, maze, algorithmic, combinatorial, digital, number, geometric, dissection, and others. Some of them could rivalry with those found at Mathematical Olympiads tests around the globe; others will work as powerful brain teasers for those with an interest in problem-solving. Math teachers, curious students of any age and even experienced mathematicians with a taste for the fun in science can find in this book unconventional paths to develop their problem-solving skills in a creative way.

Proofs that Really Count: The Art of Combinatorial Proof - Arthur T. Benjamin 2003-11-13

Recipient of the Mathematical Association of America's Beckenbach Book Prize in 2006! Mathematics is the science of patterns, and mathematicians attempt to understand these patterns and discover new ones using a variety of tools. In *Proofs That Really Count*, award-winning math professors Arthur Benjamin and Jennifer Quinn demonstrate that many number patterns, even very complex ones, can be understood by simple counting arguments. The book emphasizes numbers that are often not thought of as numbers that count: Fibonacci Numbers, Lucas Numbers, Continued Fractions, and Harmonic Numbers, to name a few. Numerous hints and references are given for all chapter exercises and many chapters end with a list of identities in need of combinatorial proof. The extensive appendix of identities will be a valuable resource. This book should appeal to readers of all levels, from high school math students to professional mathematicians.

Geometric Dissections - Harry Lindgren 1964

Teaching Children To Love Problem Solving: A Reference From Birth Through Adulthood - Terri Germain-williams 2017-05-23

remove remove This book was developed with the caring and concerned adult in mind and is a one-stop for anyone who would like to help a child develop problem solving thinking. They will become adept at the use of problem solving strategies over the course of their development from birth. For each age range, this book provides developmental information, relevant mathematical concepts, sample problems with multiple solutions, and finally activities to engage with as a family in order to develop mathematical thinking and problem solving skill.

Problems and Snapshots from the World of Probability - Gunnar Blom 2012-12-06

We, the authors of this book, are three ardent devotees of chance, or some what more precisely, of discrete probability. When we were collecting the material, we felt that one special pleasure of the field lay in its evocation of an earlier age: many of our 'probabilistic forefathers' were dexterous solvers of discrete problems. We hope that this pleasure will be transmitted to the readers. The first problem-book of a similar kind as ours is perhaps Mosteller's well-known *Fifty Challenging Problems in Probability* (1965). Possibly, our book is the second. The book contains 125 problems and snapshots from the world of probability. A 'problem' generally leads to a question with a definite answer. A 'snapshot' is either a picture or a bird's-eye view of some probabilistic field. The selection is, of course, highly subjective, and we have not even tried to cover all parts of the subject systematically. Limit theorems appear only seldom, for otherwise the book would have become unduly large. We want to state emphatically that we have not written a textbook in probability, but rather a book for browsing through when occupying an easy-chair. Therefore, ideas and results are often put forth without a machinery of formulas and derivations; the conscientious readers, who want to penetrate the whole clockwork, will soon have to move to their desks and utilize appropriate tools.

Strategy Games to Enhance Problem-Solving Ability in Mathematics - Alfred S Posamentier 2016-11-11

Games are seen only for recreation. However, this book shows that games can be used to strengthen problem-solving skills and beyond. This book presents strategy games and discusses for each one solutions towards a winning position in the game. In most cases, these strategies

are analogous to problem-solving strategies in mathematics. Readers are also exposed to a wide variety of games from several different cultures, which will broaden the perspective of the readers.

The Original Area Mazes, Volume 2 - Naoki Inaba 2018-10-30

The rules are simple . . . The math is easy . . . The puzzles get harder and harder! Hooked on area mazes? YOU'RE IN LUCK! Volume Two delivers 100 more puzzles. Your quest is to navigate a network of rectangles to find a missing value. Just remember: Area = length \times width Use spatial reasoning to find helpful relationships Whole numbers are all you need. You can always get the answer without using fractions! Originally invented for gifted students, area mazes have taken all of Japan by storm. Are you a sudoku fanatic? Do you play brain games to stay sharp? Did you love geometry . . . or would you like to finally show it who's boss? Try area mazes—they could be just what you're craving!

Handbook of Cubik Math - Alexander H Frey Jr 2020-09-24

The Handbook of Cubik Math unveils the theory involved in Rubik's Cube's solution, the potential applications of that theory to other similar puzzles, and how the cube provides a physical example for many concepts in mathematics where such examples are difficult to find. Nonetheless, the authors have been able to cover and explain these topics in a way which is easily understandable to the layman, suitable for a junior-high-school or high-school course in math, and appropriate for a college course in modern algebra. This manual will satisfy the experts' curiosity about the moves that lead to the solution of the cube and will offer a useful supplementary teaching aid to the beginners.

Problems for Metagrobologists - David Singmaster 2016-02-23

This book is a collection of over 200 problems that David Singmaster has composed since 1987. Some of the math problems have appeared in his various puzzle columns for BBC Radio and TV, Canadian Broadcasting, Focus (the UK popular science magazine), Games and Puzzles, the Los Angeles Times, Micromath, the Puzzle a Day memo pad and the Weekend Telegraph. While some of these are already classics, many of the puzzles have not been published elsewhere previously. Puzzle enthusiasts of all ages will find here arithmetic problems, properties of digits; monetary problems; alpha-metics; Diophantine problems; magic figures; sequence problems; logical problems; geometric problems; physics problems; combinatorial problems; geographic problems; calendar problems; clock problems; dissection problems and verbal problems. Contents:General Arithmetic PuzzlesProperties of DigitsMagic FiguresMonetary ProblemsDiophantine RecreationsAlphameticsSequence PuzzlesLogic PuzzlesGeometrical PuzzlesGeographic ProblemsCalendrical ProblemsClock ProblemsPhysical ProblemsCombinatorial ProblemsSome Verbal Puzzles Readership: General public. Key Features:The problems are generally original, though some are corrections or extensions of known problemsA number are open-ended, leading to unsolved problems for the readerKeywords:Metagrobologists;Alphametics;Magic Figures;Clock Problems;Diophantine "I believe the book will be welcome by amateur, as well as professional, metagrobologists. Many of the puzzles could be used as warm-up exercises to engender creative atmosphere in a math class. I am sure that many a math teacher will agree with this assessment." Alexander Bogomolny Cut The Knot

Critical Thinking Puzzles - Michael A. Dispezio 1996

A collection of puzzles, challenges, riddles, and brainteasers designed to test mental powers and improve critical thinking

Games for Your Mind - Jason Rosenhouse 2020-11-24

A lively and engaging look at logic puzzles and their role in mathematics, philosophy, and recreation Logic puzzles were first introduced to the public by Lewis Carroll in the late nineteenth century and have been popular ever since. Games like Sudoku and Mastermind are fun and engrossing recreational activities, but they also share deep foundations in mathematical logic and are worthy of serious intellectual inquiry. Games for Your Mind explores the history and future of logic puzzles while enabling you to test your skill against a variety of puzzles yourself. In this informative and entertaining book, Jason Rosenhouse begins by introducing readers to logic and logic puzzles and goes on to reveal the rich history of these puzzles. He shows how Carroll's puzzles presented Aristotelian logic as a game for children, yet also informed his scholarly work on logic. He reveals how another pioneer of logic puzzles, Raymond Smullyan, drew on classic puzzles about liars and truth-tellers to illustrate Kurt Gödel's theorems and illuminate profound questions in mathematical logic. Rosenhouse then presents a new vision for the future of logic puzzles based on nonclassical logic, which is used today in computer science and automated reasoning to manipulate large and sometimes contradictory sets of data. Featuring a wealth of sample puzzles ranging from simple to extremely challenging, this lively and

engaging book brings together many of the most ingenious puzzles ever devised, including the "Hardest Logic Puzzle Ever," metapuzzles, paradoxes, and the logic puzzles in detective stories.

Bumper Book of Simplex Crosswords - Mary O'Brien 2008

Contains 300 Simplex crosswords in a book form.

The Joy of Hex - Nina Kahn 2020-12-15

Calling all witches and badass b*tches! It's time to shake what the divine goddess gave you and live a life of bold intentions, powerful magick, and supernatural fun! Whether you're a baby witch, an experienced witch, or somewhere in between, this kickass collection of rituals and spells will inspire and invigorate your personal practice. Channel the mystical energies within and around you as you learn to manifest your dreams and open doors to exciting new possibilities. No matter what it is you're after (money, love, friendship, or inner peace), The Joy of Hex has you covered. Inside you'll find: -More than 35 rituals and spells to help you live your best life -The lowdown on witchy tools like crystals, wands, athames, altars, oils, herbs, and more! -Positivity and empowerment as you learn to trust yourself and use your intuition -Mystical and magickal rituals that soothe the soul and make life sparkle -A path to conquering the goals that matter most to you -A chance to connect to Earth's natural cycles like the goddess you are Unleash a glitter bomb of feminine power onto the world and make happy happen with Nina Kahn's The Joy of Hex, the friendly user's guide to the best spells in the cosmos.

Amusements in Mathematics - Henry Ernest Dudeney 2020-07-17

Reproduction of the original: Amusements in Mathematics by Henry Ernest Dudeney

Adventures In Recreational Mathematics (In 2 Volumes) - David Singmaster 2021-09-21

David Singmaster believes in the presentation and teaching of mathematics as recreation. When the Rubik's Cube took off in 1978, based on thinly disguised mathematics, he became seriously interested in mathematical puzzles which would provide mental stimulation for students and professional mathematicians. He has not only published the standard mathematical solution for the Rubik's cube still in use today, but he has also become the de facto scribe and noted chronicler of the recreational mathematics puzzles themselves. Dr Singmaster is also an ongoing lecturer of recreational mathematics around the globe, a noted mechanical puzzle collector, owner of thousands of books related to recreational mathematical puzzles and the 'go to' source for the history of individual mathematical puzzles. This set of two books provides readers with an adventure into previously unknown origins of ancient puzzles, which could be traced back to their Medieval, Chinese, Arabic and Indian sources. The puzzles are fully described, many with illustrations, adding interest to their history and relevance to contemporary mathematical concepts. These are musings of a respected historian of recreational mathematics.

Puzzles Old & New - Jerry Slocum 1994

Shows a variety of antique and modern puzzles, including puzzle locks and rings, and folding, impossible object, vanish, dexterity, sequential movement, disentanglement, interlocking, and take-apart puzzles

Credo - Herb Wolf 2019-12-16

... Stratus clouds disguise, Ivory sheets hang On chalky skies, Incandescent. Painters paint, Plein Air, Artists on the pond. Pigment splashes on canvas. Land, air, light respond ... Herb Wolf is a seasoned

poet whose works are influenced by the raw beauty of Mother Nature. In his first collection of published poems written over a span of forty years, Wolf reflects on a variety of tangible themes and subjects that have defined his existence. Within poems influenced by Robert Frost, Wallace Stevens, and many others, Wolf lyrically explores the passage of time as he entered and exited several decades of life as well as the not-so-forgotten memories surrounding fishing trips, experiences with family and friends, the deaths of loved ones, and decades spent with his soul mate, Lynne. Credo is a volume of verse that leads others through one person's experiences and reflections of a life well lived as he observes and perceives Mother Nature's omnipotence.

Magical Mathematics - Persi Diaconis 2015-10-13

"Magical Mathematics reveals the secrets of amazing, fun-to-perform card tricks--and the profound mathematical ideas behind them--that will astound even the most accomplished magician. Persi Diaconis and Ron Graham provide easy, step-by-step instructions for each trick, explaining how to set up the effect and offering tips on what to say and do while performing it. Each card trick introduces a new mathematical idea, and varying the tricks in turn takes readers to the very threshold of today's mathematical knowledge. For example, the Gilbreath principle--a fantastic effect where the cards remain in control despite being shuffled--is found to share an intimate connection with the Mandelbrot set. Other card tricks link to the mathematical secrets of combinatorics, graph theory, number theory, topology, the Riemann hypothesis, and even Fermat's last theorem. Diaconis and Graham are mathematicians as well as skilled performers with decades of professional experience between them. In this book they share a wealth of conjuring lore, including some closely guarded secrets of legendary magicians. Magical Mathematics covers the mathematics of juggling and shows how the I Ching connects to the history of probability and magic tricks both old and new. It tells the stories--and reveals the best tricks--of the eccentric and brilliant inventors of mathematical magic. Magical Mathematics exposes old gambling secrets through the mathematics of shuffling cards, explains the classic street-gambling scam of three-card monte, traces the history of mathematical magic back to the thirteenth century and the oldest mathematical trick--and much more"-

Professor Povey's Perplexing Problems - Thomas Povey 2015

The Puzzling World of Polyhedral Dissections - Stewart T. Coffin 1991

For many years Stewart Coffin has been inventing and building solid geometrical puzzles. His craftsmanship and originality of design have won him a devoted following among puzzle enthusiasts and collectors the world over. In this unique book, Stewart provides an enjoyable and educational guide to the history, geometry, and practical construction of three-dimensional puzzles. The Puzzling World of Polyhedral Dissections includes full coverage of the many different types of interlocking assembly puzzles, from burrs, Tangrams, and polyominoes to those using such polyhedra as the rhombic dodecahedron and truncated octahedron. Coffin also describes numerous puzzles designed by himself and other inventors, many never before published. The volume is illustrated with over 200 line drawings and photographs to help enthusiasts build their own versions of these challenging and fascinating interlocking solids. Many unsolved problems are considered that will challenge mathematicians, computer buffs, and puzzle fanatics for years to come.