



MATHEMATICS AND THE IMAGINATION

In this modern classic **EDWARD KASNER**
and **JAMES R. NEWMAN** (editor of *The World
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ures and the fascination of 
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Rubber Sheet Geometry

MATHEMATICS AND
THE IMAGINATION

EDWARD KASNER
JAMES R. NEWMAN



Mathematics The Imagination

Peter Higgins



Mathematics The Imagination:

Mathematics and the Imagination Edward Kasner, James Roy Newman, 2001-01-01 Introduces simple arithmetic calculus and non Euclidean geometry through games and puzzles

Mathematics and the Imagination Edward Kasner, James Newman, 1949

Geometry and the Imagination D. Hilbert, S. Cohn-Vossen, 2021-03-17 This remarkable book has endured as a true masterpiece of mathematical exposition There are few mathematics books that are still so widely read and continue to have so much to offer even after more than half a century has passed The book is overflowing with mathematical ideas which are always explained clearly and elegantly and above all with penetrating insight It is a joy to read both for beginners and experienced mathematicians Hilbert and Cohn Vossen is full of interesting facts many of which you wish you had known before It is also likely that you have heard those facts before but surely wondered where they could be found The book begins with examples of the simplest curves and surfaces including thread constructions of certain quadrics and other surfaces The chapter on regular systems of points leads to the crystallographic groups and the regular polyhedra in \mathbb{R}^3 In this chapter they also discuss plane lattices By considering unit lattices and throwing in a small amount of number theory when necessary they effortlessly derive Leibniz's series $4/11, 3/15, 1/7, 4/11, 1/3, 1/5, 1/7$ In the section on lattices in three and more dimensions the authors consider sphere packing problems including the famous Kepler problem One of the most remarkable chapters is Projective Configurations In a short introductory section Hilbert and Cohn Vossen give perhaps the most concise and lucid description of why a general geometer would care about projective geometry and why such an ostensibly plain setup is truly rich in structure and ideas Here we see regular polyhedra again from a different perspective One of the high points of the chapter is the discussion of Schläfli's Double Six which leads to the description of the 27 lines on the general smooth cubic surface As is true throughout the book the magnificent drawings in this chapter immeasurably help the reader A particularly intriguing section in the chapter on differential geometry is Eleven Properties of the Sphere Which eleven properties of such a ubiquitous mathematical object caught their discerning eye and why Many mathematicians are familiar with the plaster models of surfaces found in many mathematics departments The book includes pictures of some of the models that are found in the Göttingen collection Furthermore the mysterious lines that mark these surfaces are finally explained The chapter on kinematics includes a nice discussion of linkages and the geometry of configurations of points and rods that are connected and perhaps constrained in some way This topic in geometry has become increasingly important in recent times especially in applications to robotics This is another example of a simple situation that leads to a rich geometry It would be hard to overestimate the continuing influence Hilbert Cohn Vossen's book has had on mathematicians of this century It surely belongs in the pantheon of great mathematics books

Mathematics for the Imagination Peter Higgins, 2002-09-26 Explains the mathematical concepts behind everyday life using clear explanations and examples of how mathematics can be applied to history geography astronomy and biography

The Topological Imagination Angus Fletcher, 2016-04-04 In a bold and

boundary defining work Angus Fletcher clears a space for an intellectual encounter with the shape of human imagining Joining literature and topology a branch of mathematics he maps the ways the imagination s contours are formed by the spherical earth s patterns and cycles and shows how the world we inhabit also inhabits us Mathematics for the Imagination Peter M. Higgins,2023 From world navigation family trees and calendars to patterns tessellation and number tricks this new work helps the reader to understand the maths behind real life questions and rediscover the arithmetical mind Women in MathArt Shanna Dobson,2024-12-06 This volume contains the proceedings from the first Women in MathArt Research Collaboration Conference for Women showcasing women mathematicians researching and curating creative pedagogies at the intersection of mathematics and the arts This volume contains contributions to mathart projects from student mentor teams and researchers in all stages of their careers The volume also contains survey articles on new mathart intersections such as neuroaesthetics generative design generative adversarial networks and Langlands Program New results of particular interest are diamond Langlands generative design in the geometrization of the local Langlands Program investigations of the grammarology and visual epistemology of perfectoid diamonds in mathematics as grammarological metaphor infinity category constructions of pro Generative Adversarial Networks infinity stackification of mathematical exigency condensing temporal logic with entropic categorizations perfectoid diamond holography neuroaesthetics in immunology Also included is the result to foster a more inclusive work community of mathematicians using the arts as a tool to bring more vulnerability and integrity to each individual s research life Readers are herein provided a rigorous overview of current mathart developments and future mathart projects **The Invention of Imagination** Justin Humphreys,2023-10-03 Aristotle was the first philosopher to divide the imagination what he called phantasia from other parts of the psyche placing it between perception and intellect A mathematician and philosopher of mathematical sciences Aristotle was puzzled by the problem of geometrical cognition which depends on the ability to produce and see a multitude of immaterial objects and so he introduced the category of internal appearances produced by a new part of the psyche the imagination As Justin Humphreys argues Aristotle developed his theory of imagination in part to explain certain functions of reason with a psychological rather than metaphysical framework Investigating the background of this conceptual development The Invention of Imagination reveals how imagery was introduced into systematic psychology in fifth century Athens and ultimately made mathematical science possible It offers new insights about major philosophers in the Greek tradition and significant events in the emergence of ancient mathematics while offering space for a critical reflection on how we understand ourselves as thinking beings *Poetic Logic and the Origins of the Mathematical Imagination* Marcel Danesi,2023-09-02 This book treats eighteenth century Italian philosopher Giambattista Vico s theory of poetic logic for the first time as the originating force in mathematics transforming instinctive counting and spatial perception into poetic metaphorical symbolism that dovetails with the origin of language It looks at current work on mathematical cognition from

Lakoff and N ez to Butterworth Dehaene and beyond matching it against the poetic logic paradigm In a sense it continues from where Kasner and Newman left off connecting contemporary research on the mathematical mind to the idea that the products of early mathematics were virtually identical to the first forms of poetic language As such this book informs the current research on mathematical cognition from a different angle by looking back at a still relatively unknown philosopher within mathematics The aim of this volume is to look broadly at what constitutes the mathematical mind through the Vichian lens of poetic logic Vico was among the first to suggest that the essential nature of mind could be unraveled indirectly by reconstructing the sources of its modifications his term for creations that is by examining the creation and function of symbols words and all the other uniquely human artifacts including mathematics the mind has allowed humans to establish the world of civil society Vico s term for culture and civilization The book is of interest to cognitive scientists working on math cognition It presents the theory of poetic logic as Vico articulated it in his book *The New Science* examining its main premises and then applying it to an interpretation of the ongoing work in math cognition It will also be of interest to the general public since it presents a history of early mathematics through the lens of an idea that has borne fruit in understanding the origin of language and symbols more broadly

The Theory of Imagination in Classical and Mediaeval Thought Murray Wright Bundy, 1928

Imagine Math 8 Michele Emmer, Marco Abate, 2022-09-07 This eighth volume of *Imagine Math* is different from all the previous ones The reason is very clear in the last two years the world changed and we still do not know what the world of tomorrow will look like Difficult to make predictions This volume has a subtitle *Dreaming Venice* Venice the dream city of dreams that miraculous image of a city on water that resisted for hundreds of years has become in the last two years truly unreachable Many things tie this book to the previous ones Once again this volume also starts like *Imagine Math 7* with a homage to the Italian artist Mimmo Paladino who created exclusively for the *Imagine Math 8* volume a new series of ten original and unique works of art dedicated to Piero della Francesca Many artists art historians designers and musicians are involved in the new book including Linda D Henderson and Marco Pierini Claudio Ambrosini and Davide Amodio Space also for comics and mathematics in a Disney key Many applications from Origami to mathematical models for world hunger Particular attention to classical and modern architecture with Tullia Iori As usual the topics are treated in a way that is rigorous but captivating detailed and full of evocations This is an all embracing look at the world of mathematics and culture

Imagine Math 7 Michele Emmer, Marco Abate, 2020-10-07

Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms Imagine building mathematical models that make it possible to manage our world better imagine solving great problems imagine new problems never before thought of imagine combining music art poetry literature architecture theatre and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour This seventh volume starts with a homage to the Italian artist Mimmo Paladino who created exclusively for the

Venice Conference 2019 ten original and unique works of art paper dedicated to the themes of the meeting A large section is dedicated to the most recent Fields Medals including a Homage to Maryam Mirzakhani including a presentation of the exhibition on soap bubbles in art and science that took place in 2019 A section is dedicated to cinema and theatre including the performances by Claire Bardainne Adrien Mondot A part of the conference focused on the community of mathematicians their role in literature and even in politics with the extraordinary example of Antanas Mockus Mayor of Bogot Mathematics in the constructions of bridges in particular in Italy in the Sixties was presented by Tullia Iori A very particular contribution on Origami by a mathematician Marco Abate and an artist Alessandro Beber And many other topics As usual the topics are treated in a way that is rigorous but captivating detailed and full of evocations This is an all embracing look at the world of mathematics and culture The world life culture everything has changed in a few weeks with the Coronavirus Culture science are the main ways to safeguard people s physical and social life Trust in humanity s creativity and ability The motto today in Italy is Everything will be fine This work is addressed to all those who have an interest in Mathematics **Rorty** Amélie Rorty,1986 **Thomism** B.I. Mullahy, **Mathematics Masterclasses** Michael J. Sewell,1997 This is a valuable resource of non syllabus material for mathematics in school education and science teachers at secondary school level teenagers and parents It contains written versions of Royal Institution masterclasses on a wide selection of topics in pure and applied mathematics and very little knowledge is assumed Topics include chaos theory meteorology storage limitations of computers population growth and decay and the mechanics of dinosaurs This book shows that mathematics can be fun The Elements of Psychology David Jayne Hill,1888 Imagining Numbers Barry Mazur,2004-02-01 How the elusive imaginary number was first imagined and how to imagine it yourself Imagining Numbers particularly the square root of minus fifteen is Barry Mazur s invitation to those who take delight in the imaginative work of reading poetry but may have no background in math to make a leap of the imagination in mathematics Imaginary numbers entered into mathematics in sixteenth century Italy and were used with immediate success but nevertheless presented an intriguing challenge to the imagination It took more than two hundred years for mathematicians to discover a satisfactory way of imagining these numbers With discussions about how we comprehend ideas both in poetry and in mathematics Mazur reviews some of the writings of the earliest explorers of these elusive figures such as Rafael Bombelli an engineer who spent most of his life draining the swamps of Tuscany and who in his spare moments composed his great treatise L Algebra Mazur encourages his readers to share the early bafflement of these Renaissance thinkers Then he shows us step by step how to begin imagining ourselves imaginary numbers

Understanding Children's Mathematical Graphics: Beginnings in Play Elizabeth Carruthers,Maulfry Worthington,2011-04-16 This book challenges traditional beliefs and practices of teaching written mathematics in early childhood It gives theoretical underpinnings and offers exciting insights and context to children s early mathematical thinking and in particular into children s mathematical graphics showing how this supports their understanding of the

abstract symbolic language of mathematics Drawing on a wide range of examples it illustrates and explains how children explore and communicate their mathematical thinking through their mathematical graphics and how this begins in play The book looks at the power of children s own marks symbols and other graphical representations to convey meanings exploring how they support complex thinking The authors explore the relationship between children s play and meaning making Rather than viewing mathematics as a separate subject or as a set of basic skills to be transmitted they demonstrate that in supportive learning cultures children develop their own mathematical thinking to solve problems Key features include Numerous new examples and case studies of children from birth to 8 years highlighting the complexity and richness of children s thinking Explanation of pedagogical issues showing how they can support rich play and mathematics Draws on the authors latest research This book is valuable reading for students teachers primary mathematics coordinators and all early years professionals working in the Early Years Foundation Stage and Key Stage One **Rethinking Descartes's**

Substance Dualism Lynda Gaudemard,2021-09-01 This monograph presents an interpretation of Descartes s dualism which differs from the standard reading called classical separatist dualism claiming that the mind can exist without the body It argues that contrary to what it is commonly claimed Descartes s texts suggest an emergent creationist substance dualism according to which the mind is a nonphysical substance created and maintained by God which cannot begin to think without a well disposed body According to this interpretation God s laws of nature endow each human body with the power to be united to an immaterial soul While the soul does not directly come from the body the mind can be said to emerge from the body in the sense that it cannot be created by God independently from the body The divine creation of a human mind requires a well disposed body a physical categorical basis This kind of emergentism is consistent with creationism and does not necessarily entail that the mind cannot survive the body This early modern view has some connections with Hasker s substance emergent dualism 1999 Indeed Hasker states that the mind is a substance emerging at one time from neurons and that consciousness has causal powers which effects cannot be explained by physical neurons An emergent unified self existing entity emerges from the brain on which it acts upon For its proponents Hasker s view explains what Descartes s dualism fails to explain especially why the mind regularly interacts with one and only one body After questioning the notion of emergence the author argues that the theory of emergent creationist substance dualism that she attributes to Descartes is a more appropriate alternative because it faces fewer problems than its rivals This monograph is valuable for anyone interested in the history of early modern philosophy and contemporary philosophy of mind **Teaching Secondary**

Mathematics Gregory Hine,Judy Anderson,Robyn Reaburn,Michael Cavanagh,Linda Galligan,Bing H. Ngu,Bruce White,2021-09-24 Teaching Secondary Mathematics is the essential guide for preservice mathematics teachers in Australia

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Mathematics The Imagination**

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