

# MATHEMATICS AND THE IMAGINATION

*Edward Kasner and James R. Newman*



*"A brilliant and entirely charming book about the subject from which most of us run away in terror..."* The New Republic

MATHEMATICS AND IMAGINATION

# Mathematics The Imagination

**Edward Kasner, Edward kasner &  
james new, Kasner & James New  
Edward**

## **Mathematics The Imagination:**

*Mathematics and the Imagination* Edward Kasner, 1965      *Mathematics and the Imagination* Edward Kasner, James Newman, 1949      *Geometry and the Imagination* David Hilbert, Stephan Cohn-Vossen, 1999 This remarkable book endures as a true masterpiece of mathematical exposition. 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. *Geometry and the Imagination* is full of interesting facts many of which you wish you had known before. 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  $\pi = 4 \left( 1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \dots \right)$ . 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. 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 in Society*, 1996 Articles from the 2013 PAM Conference      *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 *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 **Logic Land--** Yasmina Roberts,2011 **Shapes of Imagination** George Stiny,2022-11-15 Visual calculating in shape grammars aligns with art and design bridging the gap between seeing Coleridge s imagination and combinatoric play Coleridge s fancy In Shapes of Imagination George Stiny runs visual calculating in shape grammars through art and design incorporating Samuel Taylor Coleridge s poetic imagination and Oscar Wilde s corollary to see things as they aren t Many assume that calculating limits art and design to suit computers but shape grammars rely on seeing to prove otherwise Rules that change what they see extend calculating to overtake what computers can do in logic and with data and learning Shape grammars bridge the divide between seeing Coleridge s imagination or esemplastic power and combinatoric play Coleridge s fancy Stiny shows that calculating without seeing excludes art and design Seeing is key for calculating to augment creative activity with aesthetic insight and value Shape grammars go by appearances in a full fledged aesthetic enterprise for the inconstant eye they answer the question of what calculating would be like if Turing and von Neumann were artists instead of logicians Art and design are calculating in all their splendid detail **The Mathematical Imagination** Matthew Handelman,2019-03-05 This book offers an archeology of the undeveloped potential of mathematics for critical theory As Max Horkheimer and Theodor W Adorno first conceived of the critical project in the 1930s critical theory steadfastly opposed the mathematization of thought Mathematics flattened thought into a dangerous positivism that led reason to the barbarism of World War II The Mathematical Imagination challenges this narrative showing how for other German Jewish thinkers such as Gershom Scholem Franz Rosenzweig and Siegfried Kracauer mathematics offered metaphors to negotiate the crises of modernity during the Weimar Republic Influential theories of poetry messianism and cultural critique Handelman shows borrowed from the philosophy of mathematics infinitesimal calculus and geometry in order to refashion cultural and aesthetic discourse Drawn to the austerity and muteness of mathematics these friends and forerunners of the Frankfurt School found in mathematical approaches to negativity strategies to capture the marginalized experiences and perspectives of Jews in Germany Their vocabulary in which theory could be both mathematical and critical is missing from the intellectual history of critical theory whether in the work of second generation critical theorists such as Jürgen Habermas or in contemporary critiques of technology The Mathematical Imagination shows how Scholem Rosenzweig and Kracauer s engagement with mathematics uncovers a more capacious vision of the critical project one with tools that can help us intervene in our digital

and increasingly mathematical present The Mathematical Imagination is available from the publisher on an open access basis

Math Imagination Edward Kasner, Edward Kasner & James New, Kasner & James New Edward, 1974-09-15     **Imagining Numbers** Barry Mazur, 2003 A tour of the creative side of mathematics this book describes the first use of imaginary numbers in sixteenth century Italy and the subsequent two hundred year effort to perfect the process citing the words of key Renaissance thinkers     **Intention and Imagination in Mathematics** Richard Martin August, 1964     Mathematical Imagination Expanded Through Drawing Figures David Ann, 2021-02-05     **Imagine Math 6** Michele Emmer, Marco Abate, 2018-11-06 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 combining music art poetry literature architecture and cinema with mathematics Imagine the unpredictable and sometimes counterintuitive applications of mathematics in all areas of human endeavour Imagination and mathematics imagination and culture culture and mathematics This sixth volume in the series begins with a homage to the architect Zaha Hadid who died on March 31st 2016 a few weeks before the opening of a large exhibition of her works in Palazzo Franchetti in Venice where all the Mathematics and Culture conferences have taken place in the last years A large section of the book is dedicated to literature narrative and mathematics including a contribution from Simon Singh It discusses the role of media in mathematics including museums of science journals and movies Mathematics and applications including blood circulation and preventing crimes using earthquakes is also addressed while a section on mathematics and art examines the role of math in design A large selection presents photos of mathematicians and mathematical objects by Vincent Moncorge Discussing all topics in a way that is rigorous but captivating detailed but full of evocations it offers an all embracing look at the world of mathematics and culture     *Hints to Speakers and Players* Rosina Filippi, 1911     **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      **Use of Memory and Imagination in Mathematics and Science** P. J. Dowling,1914      *How Math Teachers Use Imagination to Teach Content and Problem Solving* Melissa Denby,2007

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