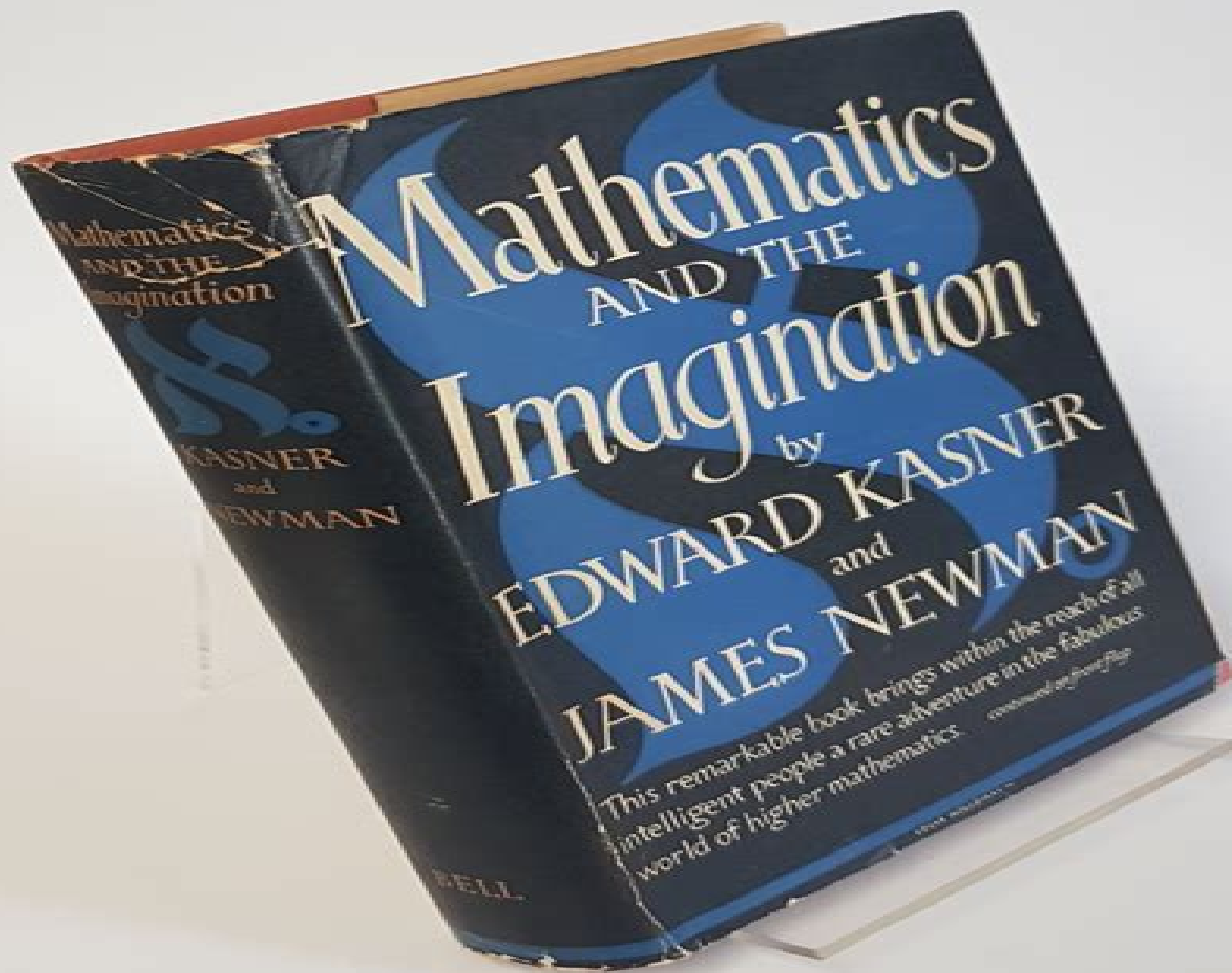




Mathematics
AND THE
Imagination

KASNER
and
NEWMAN

Mathematics AND THE Imagination

by
EDWARD KASNER
and
JAMES NEWMAN

This remarkable book brings within the reach of all
intelligent people a rare adventure in the fabulous
world of higher mathematics.

continued on front flap

BELL

Mathematics And The Imagination

Peter Higgins



Mathematics And The Imagination:

Mathematics and the Imagination Edward Kasner, James Newman, 2013-04-22 With wit and clarity the authors progress from simple arithmetic to calculus and non Euclidean geometry Their subjects geometry plane and fancy puzzles that made mathematical history tantalizing paradoxes more Includes 169 figures **Mathematics and the Imagination** Edward Kasner, James Newman, 1949 Edward Kasner and James Newman Jorge Luis Borges, 1940 MATHEMATICS AND THE IMAGINATION. EDWARD KASNER AND JAMES NEWMAN. WITH DRAWINGS AND DIAGRAMS BY RUFUS ISAACS. Edward Kasner, James Newman, 1963 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 Math Imagination Edward Kasner, Edward Kasner & James New, Kasner & James New Edward, 1974-09-15 **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 $4 \frac{1}{1} \frac{1}{3} \frac{1}{5} \frac{1}{7} \frac{1}{4} \frac{1}{1} \frac{1}{3} \frac{1}{5} \frac{1}{7}$ 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 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 *The Cambridge Companion to Leibniz* Nicholas Jolley, 1995 The most comprehensive account of the full range of Leibniz's thought **Gaither's Dictionary of Scientific Quotations** Carl C. Gaither, Alma E. Cavazos-Gaither, 2008-01-08 Scientists and other keen observers of the natural world sometimes make or write a statement pertaining to scientific activity that is destined to live on beyond the brief period of time for which it was intended This book serves as a collection of these statements from great philosophers and thought influencers of science past and present It allows the reader quickly to find relevant quotations or citations Organized thematically and indexed alphabetically by author this work makes readily available an unprecedented collection of approximately 18 000 quotations related to a broad range of scientific topics

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