



# MATHEMATICAL FALLACIES, FLAWS, AND FLIMFLAM

EDWARD J. BARBEAU



The Mathematical Association of America

# Mathematical Fallacies Flaws And Flimflam

**John dePillis, Jose Wudka**



## **Mathematical Fallacies Flaws And Flimflam:**

**Mathematical Fallacies, Flaws, and Flimflam** Edward Barbeau, 2000-06-15 Through hard experience mathematicians have learned to subject even the most evident assertions to rigorous scrutiny as intuition and facile reasoning can often lead them astray. However, the impossibility and impracticality of completely watertight arguments make it possible for errors to slip by the most watchful eye. They are often subtle and difficult of detection. When found, they can teach us a lot and can present a real challenge to straighten out. Presenting students with faulty arguments to troubleshoot can be an effective way of helping them critically understand material, and it is for this reason that I began to compile fallacies and publish them first in the Notes of the Canadian Mathematical Society and later in the College Mathematics Journal in the Fallacies Flaws and Flimflam section. I hoped to challenge and amuse readers as well as to provide them with material suitable for teaching and student assignments. This book collects the items from the first eleven years of publishing in the CMJ. One source of such errors is the work of students. Occasionally a text book will weigh in with a specious result or solution. Nonprofessional sources such as newspapers are responsible for a goodly number of mishaps, particularly in arithmetic, especially percentages and probability. Their use in classrooms may help students become critical readers and listeners of the media. Quite a few items come from professional mathematicians. The reader will find in this book some items that are not erroneous but seem to be. These need a fuller analysis to clarify the situation. All the items are presented for your entertainment and use. The mathematical topics covered include algebra, trigonometry, geometry, probability, calculus, linear algebra, and modern algebra.

**More Fallacies, Flaws, and Flimflam** Edward Barbeau, 2013-01-01 Mistakes in mathematical reasoning taken from a variety of sources are exposed and analysed in this entertaining book. [More Fallacies, Flaws & Flimflam](#) Edward J. Barbeau, 2013-10-16 More Fallacies Flaws and Flimflam is the second volume of selections drawn mostly from the College Mathematics Journal column Fallacies Flaws and Flimflam from 2000 through 2008. The MAA published the first collection Mathematical Flaws Fallacies and Flimflam in 2000. As in the first volume, More Fallacies Flaws and Flimflam contains items ranging from howlers, outlandish procedures that nonetheless lead to a correct answer, to deep or subtle errors often made by strong students. Although some are provided for entertainment, others challenge the reader to determine exactly where things go wrong. Items are sorted by subject matter. Elementary teachers will find chapter 1 of most use, while middle and high school teachers will find chapters 1, 2, 3, 7, and 8 applicable to their levels. College instructors can delve for material in every part of the book. There are frequent references to the College Mathematics Journal; these are denoted by CMJ. [Magnificent Mistakes in Mathematics](#) Alfred S. Posamentier, Ingmar Lehmann, 2013-08-13 Two veteran math educators demonstrate how some magnificent mistakes had profound consequences for our understanding of mathematics' key concepts. In the nineteenth century, English mathematician William Shanks spent fifteen years calculating the value of  $\pi$ , setting a record for the number of decimal places. Later, his calculation was reproduced using large wooden numerals to decorate the cupola of a hall in the

Palais de la D couverte in Paris However in 1946 with the aid of a mechanical desk calculator that ran for seventy hours it was discovered that there was a mistake in the 528th decimal place Today supercomputers have determined the value of pi to trillions of decimal places This is just one of the amusing and intriguing stories about mistakes in mathematics in this layperson s guide to mathematical principles In another example the authors show that when we prove that every triangle is isosceles we are violating a concept not even known to Euclid that of betweenness And if we disregard the time honored Pythagorean theorem this is a misuse of the concept of infinity Even using correct procedures can sometimes lead to absurd but enlightening results Requiring no more than high school level math competency this playful excursion through the nuances of math will give you a better grasp of this fundamental all important science

**How Euler Did Even More** C. Edward Sandifer, 2014-11-19 Sandifer has been studying Euler for decades and is one of the world s leading experts on his work This volume is the second collection of Sandifer s How Euler Did It columns Each is a jewel of historical and mathematical exposition The sum total of years of work and study of the most prolific mathematician of history this volume will leave you marveling at Euler s clever inventiveness and Sandifer s wonderful ability to explicate and put it all in context

I, Mathematician Peter Casazza, Steven G. Krantz, Randi D. Ruden, 2015-03-10 Mathematicians have pondered the psychology of the members of our tribe probably since mathematics was invented but for certain since Hadamard s The Psychology of Invention in the Mathematical Field The editors asked two dozen prominent mathematicians and one spouse thereof to ruminate on what makes us different The answers they got are thoughtful interesting and thought provoking Not all respondents addressed the question directly Michael Atiyah reflects on the tension between truth and beauty in mathematics T W K rner Alan Schoenfeld and Hyman Bass chose to write reflectively and thoughtfully about teaching and learning Others including Ian Stewart and Jane Hawkins write about the sociology of our community Many of the contributions range into philosophy of mathematics and the nature of our thought processes Any mathematician will find much of interest here

**Illustrated Special Relativity through Its Paradoxes: A Fusion of Linear Algebra, Graphics, and Reality** John dePillis, Jose Wudka, 2013-12-31 Assuming a minimum of technical expertise beyond basic matrix theory the authors introduce inertial frames and Minkowski diagrams to explain the nature of simultaneity why faster than light travel is impossible and the proper way to add velocities We resolve the twin paradox the train in tunnel paradox the pra shooter paradox along with the lesser known bug rivet paradox that shows how rigidity is incompatible with special relativity Since Einstein in his seminal 1905 paper introducing special relativity acknowledged his debt to Clerk Maxwell we fully develop Maxwell s four equations that unify the theories of electricity optics and magnetism These equations also lead to a simple calculation for the frame independent speed of electromagnetic waves in a vacuum Cover

**American Mathematics 1890-1913** Steve Batterson, 2017-06-29 At the turn of the twentieth century mathematical scholarship in the United States underwent a stunning transformation In 1890 no American professor was producing mathematical research worthy of

international attention Graduate students were then advised to pursue their studies abroad By the start of World War I the standing of American mathematics had radically changed George David Birkhoff Leonard Dickson and others were turning out cutting edge investigations that attracted notice in the intellectual centers of Europe Harvard Chicago and Princeton maintained graduate programs comparable to those overseas This book explores the people timing and factors behind this rapid advance Through the mid nineteenth century most American colleges followed a classical curriculum that in mathematics rarely reached beyond calculus With no doctoral programs of any sort in the United States until 1860 mathematical scholarship lagged far behind that in Europe After the Civil War visionary presidents at Harvard and Johns Hopkins broadened and deepened the opportunities for study The breakthrough for mathematics began in 1890 with the hiring in consecutive years of William F Osgood and Maxime B cher at Harvard and E H Moore at Chicago Each of these young men had studied in Germany where they acquired vital mathematical knowledge and taste Over the next few years Osgood B cher and Moore established their own research programs and introduced new graduate courses Working with other like minded individuals through the nascent American Mathematical Society the infrastructure of meetings and journals were created In the early twentieth century Princeton dramatically upgraded its faculty to give the United States the stability of a third mathematics center The publication by Birkhoff in 1913 of the solution to a famous conjecture served notice that American mathematics had earned consideration with the European powers of Germany France Italy England and Russia

**Phi, Pi, e and i** David Perkins, 2018-10-10 Certain constants occupy precise balancing points in the cosmos of number like habitable planets sprinkled throughout our galaxy at just the right distances from their suns This book introduces and connects four of these constants e and i each of which has recently been the individual subject of historical and mathematical expositions But here we discuss their properties as a group at a level appropriate for an audience armed only with the tools of elementary calculus This material offers an excellent excuse to display the power of calculus to reveal elegant truths that are not often seen in college classes These truths are described here via the work of such luminaries as Nilakantha Liu Hui Hemachandra Khayyam Newton Wallis and Euler

**The G. H. Hardy Reader** Donald J. Albers, Gerald L. Alexanderson, William Dunham, Mathematical Association of America, 2016-04-11 G H Hardy ranks among the greatest twentieth century mathematicians This book introduces this extraordinary individual and his writing

**Essays on mathematical reasoning : cognitive aspects of mathematical research and education** Jerzy Pogonowski, 2020-01-01 This volume contains four essays which may attract the attention of those readers who are interested in mathematical cognition The main issues and questions addressed include How do we achieve understanding of mathematical notions and ideas What benefits can be obtained from the mistakes of great mathematicians Which mathematical objects are standard and which are pathological Is it possible to characterize the intended models of mathematical theories in a unique way

*Half a Century of Pythagoras Magazine* Alex Van Den Brandhof, Jan Guichelaar, Arnout Jaspers, 2015-09-29 Half a Century

of Pythagoras Magazine is a selection of the best and most inspiring articles from this Dutch magazine for recreational mathematics. Founded in 1961 and still thriving today, Pythagoras has given generations of high school students in the Netherlands a perspective on the many branches of mathematics that are not taught in schools. The book contains a mix of easy yet original puzzles, more challenging and at least as original problems as well as playful introductions to a plethora of subjects in algebra, geometry, topology, number theory, and more. Concepts like the sudoku and the magic square are given a whole new dimension. One of the first editors was a personal friend of world famous Dutch graphic artist Maurits Escher, whose impossible objects have been a recurring subject over the years. Articles about his work are part of a special section on Mathematics and Art. While many books on recreational mathematics rely heavily on folklore, a reservoir of ancient riddles and games that are being recycled over and over again, most of the puzzles and problems in *Half a Century of Pythagoras Magazine* are original, invented for this magazine by Pythagoras many editors and authors over the years. Some are no more than cute little brainteasers which can be solved in a minute; others touch on profound mathematics and can keep the reader entranced indefinitely. Smart high school students and anyone else with a sharp and inquisitive mind will find in this book a treasure trove which is rich enough to keep his or her mind engaged for many weeks and months.

**Calculus Without Hocus Pocus** K. Razi Naqvi, 2019-07-03. Calculus is a subject that needs to be studied many times over, ideally with a different book in each new round. Using Ezra Pound's analogy in *ABC of Reading*, we may think of the learner as an apprentice carpenter and of calculus as a stool or table: the learner must keep going until the piece of furniture has three legs and will stand up, or four legs and won't tip over too easily. Most people cannot follow this plan because life is short and the list of other demands on their time just too long. This book has been written with a view to making calculus more interesting and intelligible to those who left college recently or a long time ago without becoming an adept; those who are familiar with the contents of undergraduate calculus but not altogether content with their own grasp of the central concepts; those who are aware that the structure put together by them during their apprenticeship is too wobbly and liable to tip over when the number of independent variables is increased from one to just two. An absurd simile. Not in the opinion of a distinguished mathematician and educator quoted verbatim in the preface who acknowledged that the customary definition of a differential in the theory of functions of a single variable breaks down when one extends it to functions of several variables and considers double integrals. He continued: Students are rightly baffled when they attempt to convert such an integral to polar coordinates and are told that no longer is it permissible to apply a straightforward extension of the relevant formula for a change of variable in a single integral. The Jacobian must be used instead, and at this point the logical structure which was built so carefully collapses entirely. If we wish to make calculus an intellectually honest subject and not a collection of convenient tricks, it is time we made a fresh start. *Calculus Without Hocus Pocus* aims to elucidate those and only those issues that are not treated adequately in standard textbooks. It offers more cogent explanations of the conundrums and paradoxes

which have been nagging the minds of students and teachers of calculus for generations The author who has been using calculus as a teacher and researcher for over fifty years has tried to produce a condensed and readable book that throws light from various directions upon the difficult parts of this very technical and somewhat unpopular subject to show some of the reasons why calculus has been cast in the mould in which we find it and to recommend some minor changes in notation and nomenclature that would remove nearly all of the hocus pocus which almost every learner of calculus has had to endure so far

**Five Hundred Mathematical Challenges** Edward J. Barbeau, Edward Barbeau, Murray S. Klamkin, William O. J. Moser, 1995 Contains 500 problems ranging over a wide spectrum of mathematics and of levels of difficulty *Mathematical Apocrypha: Stories and Anecdotes of Mathematicians and the Mathematical* Steven G. Krantz, 2020-08-03

**Mathematical Adventures for Students and Amateurs** David F. Hayes, Tatiana Shubin, 2020-08-03

**Sherlock Holmes in Babylon and Other Tales of Mathematical History** Marlow Anderson, Victor Katz, Robin Wilson, 2022-04-26 Covering a span of almost 4000 years from the ancient Babylonians to the eighteenth century this collection chronicles the enormous changes in mathematical thinking over this time as viewed by distinguished historians of mathematics from the past and the present Each of the four sections of the book Ancient Mathematics Medieval and Renaissance Mathematics The Seventeenth Century The Eighteenth Century is preceded by a Foreword in which the articles are put into historical context and followed by an Afterword in which they are reviewed in the light of current historical scholarship In more than one case two articles on the same topic are included to show how knowledge and views about the topic changed over the years This book will be enjoyed by anyone interested in mathematics and its history and in particular by mathematics teachers at secondary college and university levels

**Sophie's Diary** Dora Musielak, 2022-08-11 Sophie Germain overcame gender stigmas and a lack of formal education to prove that for all prime exponents less than 100 Case I of Fermat's Last Theorem holds Hidden behind a man's name her brilliance as mathematician was first discovered by three of the greatest scholars of the eighteenth century Lagrange Gauss and Legendre In Sophie's Diary Germain comes to life through a fictionalized journal that intertwines mathematics with historical descriptions of the brutal events that took place in Paris between 1789 and 1793 This format provides a plausible perspective of how a young Sophie could have learned mathematics on her own both fascinated by numbers and eager to master tough subjects without a teacher's guidance Her passion for mathematics is integrated into her personal life as an escape from societal outrage Sophie's Diary is suitable for a variety of readers both young and old mathematicians and novices who will be inspired and enlightened on a field of study made easy as told through the intellectual and personal struggles of an exceptional young woman *Mathematical Apocrypha Redux: More Stories and Anecdotes of Mathematicians and the Mathematical* Steven G. Krantz, 2019-11-25 A companion to Mathematical Apocrypha published in 2002 this second volume of anecdotes stories quips and ruminations about mathematics and mathematicians is sure to please It differs from other books of its type in that many of the stories are from the twentieth century and many

about currently living mathematicians A number of the best stories come from the author's first hand experience The writing is lively engaging and informative There are stories the reader may wish to share with students and colleagues friends and relatives The purpose of the book is to explore and to celebrate the many facets of mathematical life The stories reveal mathematicians as intense human and sympathetic They should resonate with readers everywhere This book will appeal to students from high school through graduate school to faculty and mathematical scientists of all stripes and also to physicists engineer and anyone interested in mathematics

777 *Mathematical Conversation Starters* John de Pillis, 2002 Illustrated book showing that there are few degrees of separation between mathematics and topics that provoke interesting conversations



## Enjoying the Song of Term: An Psychological Symphony within **Mathematical Fallacies Flaws And Flimflam**

In some sort of taken by displays and the ceaseless chatter of instant communication, the melodic splendor and psychological symphony developed by the published term frequently fade in to the background, eclipsed by the persistent sound and disturbances that permeate our lives. However, situated within the pages of **Mathematical Fallacies Flaws And Flimflam** a charming fictional treasure full of raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that captivating masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the moving examination, we can examine the book is key harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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