



MATHEMATICAL FALLACIES, FLAWS, AND FLIMFLAM

EDWARD J. BARBEAU



The Mathematical Association of America

Mathematical Fallacies Flaws And Flimflam

**Donald J. Albers, Gerald L.
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Dunham, Mathematical Association of
America**

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.

Mathematical Fallacies, Flaws, and Flimflam Edward J. Barbeau, 2000-12-31 A collection of mathematical errors drawn from the work of students, textbooks, and the media, as well as from professional mathematicians themselves. **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. **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 π , 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 Découverte 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 π 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 *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 *Teaching Secondary School Mathematics: Techniques And Enrichment* Alfred S Posamentier,Beverly Smith,2020-09-18 The primary aim of this book is to provide teachers of mathematics with all the tools they would need to conduct most effective mathematics instruction The book guides teachers through the all important planning process which includes short and long term planning as well as constructing most effective lessons with an emphasis on motivation classroom management emphasizing problem solving techniques assessment enriching instruction for students at all levels and introducing relevant extracurricular mathematics activities Technology applications are woven throughout the text A unique feature of this book is the second half which provides 125 highly motivating enrichment units for all levels of secondary school mathematics Many years of proven success makes this book essential for both pre service and in service mathematics teachers *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

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

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 **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 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

Glimpses into the World of Mathematics Szymon Chlebowski, 2021 Essays collected in this volume deal with various problems from the philosophy of mathematics What connects them are two questions how mathematics is created and how it is acquired In *Three Worlds of Mathematics* we are familiarized with David Tall's ideas pertaining to the embodied symbolic and formal worlds of mathematics In *Basic Ideas of Intuitionism* we focus on an epistemological approach to mathematics which is distinctive to constructive mathematics The author focuses on the computational content of intuitionistic logic and shows how it relates to functional programming The *Brave Mathematical Ant* carefully selects mathematical puzzles related to teaching experiences in a way that the solution requires creativity and is not obtainable by following an algorithm Moreover the solution gives us some new insight into the underlying idea *Degrees Of Accessibility Of Mathematical Objects* discusses various criteria which can be used to judge accessibility of mathematical objects We find logical complexity range of applications existence of a physical model as well as aesthetic values

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

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d

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 *Beautiful Mathematics* Martin Erickson, 2011-12-22 Mathematical ideas have an aesthetic appeal that can be appreciated by anyone who has the time and dedication to investigate Mathematical topics are presented in the categories of words images formulas theorems proofs solutions and unsolved problems Readers will discover exciting mathematics topics from complex numbers to arithmetic progressions from Alcuin s sequence to the zeta function and from hypercubes to infinity squared Who should read this book There is something new for any mathematically minded person High school and college students will find motivation for their mathematical studies Professional mathematicians will find fresh examples of mathematical beauty to pass along to others Within each chapter the topics require progressively more prerequisite knowledge An appendix gives background definitions and theorems while another gives challenging exercises with solutions

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