

Steven G. Krantz

# APOCHURA



## Mathematical Apocrypha Mathematical Apocrypha

**Charles R. Hadlock** 

#### Mathematical Apocrypha Mathematical Apocrypha:

Mathematical Apocrypha: Stories and Anecdotes of Mathematicians and the Mathematical Steven G. Krantz, 2020-08-03 Mathematical Apocrypha Redux Steven G. Krantz, 2005 A volume of anecdotes stories guips and ruminations about mathematics and mathematicians 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 guips 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 The Early Mathematics of Leonhard Euler C. Edward Sandifer, 2020-07-14 The Early Mathematics of Leonhard Euler gives an article by article description of Leonhard Euler's early mathematical works the 50 or so mathematical articles he wrote before he left St Petersburg in 1741 to join the Academy of Frederick the Great in Berlin These early pieces contain some of Euler's greatest work the Konigsberg bridge problem his solution to the Basel problem and his first proof of the Euler Fermat theorem It also presents important results that we seldom realize are due to Euler that mixed partial derivatives are usually equal our f x f x notation and the integrating factor in differential equations The books shows how contributions in diverse fields are related how number theory relates to series which in turn relate to elliptic integrals and then to differential equations There are dozens of such strands in this beautiful web of mathematics At the same time we see Euler grow in power and sophistication from a young student when at 18 he published his first work on differential equations a paper with a serious flaw to the most celebrated mathematician and scientist of his time It is a portrait of the world's most exciting mathematics between 1725 and 1741 rich in technical detail woven with connections within Euler's work and with the work of other mathematicians in other times and places laced with historical context

**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

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 A Historian Looks Back Judith V. Grabiner, 2010-10-14 Judith Grabiner has written extensively on the history of mathematics principally for mathematicians rather than historians This collection of her work highlights the benefits of studying the development of mathematical ideas and the relationship between culture and mathematics She also considers the struggles and successes of famous mathematicians with the aim of inspiring students and teachers alike A large part of this book is the author's The Calculus as Algebra J L Lagrange 1736 1813 which focuses on Lagrange's pioneering attempt to reduce the calculus to algebra The nine other articles are on a broad range of other topics such as some widely held myths about the history of mathematics and the work of heavyweight mathematicians such as Descartes Newton Maclaurin and Lagrange Six of these articles have won awards from the MAA for expository excellence This collection is an inspiring resource for history of mathematics courses The Edge of the Universe Deanna Haunsperger, Stephen Kennedy, 2006 Beautifully printed with 24 pages of full color Ideal for Math Clubs Math Horizons is a magazine that celebrates the people and ideas which are mathematics Containing the editor's selections from the first ten years of the magazine's existence this volume features exquisite expositions of undergraduate level mathematics Broad and appealing the coverage also includes fiction with mathematical themes literary theatrical and cinematic criticism humor history and social history Mathematics is shown as a human endeavor through biographies and interviews of mathematicians and users of mathematics including artists writers and scientists. The puzzles games and activities throughout make it a valuable resource for student math clubs Though especially appealing to students of mathematics from high school to graduate school and their teachers this collection is an eclectic and wide ranging look at the culture of mathematics and offers enjoyable reading for anyone with an interest in mathematics Lobachevski Illuminated Seth Braver, 2011-12-31 Recipient of the Mathematical Association of America's Beckenbach Book Prize in 2015 Lobachevski Illuminated provides an historical introduction to non Euclidean geometry Within its pages readers will be guided step by step through a new

translation of Lobachevski s groundbreaking book The Theory of Parallels Extensive commentary situates Lobachevski s work in its mathematical historical and philosophical context thus granting readers a vision of the mysterious and beautiful world of non Euclidean geometry as seen through the eyes of one of its discoverers Although Lobachevski s 170 year old text is challenging to read on its own Seth Braver's carefully arranged illuminations render this classic accessible to any modern reader student professional or layman undaunted by high school mathematics **Six Sources of Collapse** Charles R. Hadlock, 2012 An accessible investigation into the mathematics behind collapse processes ranging from crashing financial markets to extreme weather to ecological disasters Aha! A Two Volume Collection Martin Gardner, 2006-12-14 A collection of puzzles that challenge reasoning power and intuition and help develop problem solving ability Adventures for Students and Amateurs David F. Hayes, Tatiana Shubin, 2020-08-03 History of Mathematics: Highways and Byways Amy Dahan-Dalmedico, Jeanne Pieffer, 2020-08-03 A translation of the original 1986 French edition by Amy Dahan Dalmedico and Jeanne Peiffer both from Centre National de la Recherche Scientifique Paris this eminently readable book places the birth and development of mathematical activity in historical cultural and economic context The book offers an outstanding account for instance of how Arabs preserved Greek mathematics and extended it over an 800 year period from 400 1200 The large number of illustrations supports the text and contributes to a fine read Publisher **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 **A Mathematician Comes of Age** Steven G. Krantz, 2012-03 This book is about the concept of mathematical maturity Mathematical maturity is central to a mathematics education The goal of a mathematics education is to transform the student from someone who treats mathematical ideas empirically and intuitively to someone who treats mathematical ideas analytically and can control and manipulate them effectively Put more directly a mathematically mature person is one who can read analyze and evaluate proofs And most significantly he she is one who can create proofs For this is what modern mathematics is all about coming up with new ideas and validating them with proofs The book provides background data and analysis for understanding the concept of mathematical maturity It turns the idea of mathematical maturity from a topic for coffee room conversation to a topic for analysis and serious consideration 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 Calculus and Its Origins David Perkins, 2012-04-12 Calculus answers questions that had been explored for centuries before calculus was born Calculus and Its Origins begins with these ancient questions and details the remarkable story of how subsequent scholars wove these inquiries into a unified theory This book does not presuppose knowledge of calculus it requires only a basic knowledge of geometry and algebra similar triangles polynomials factoring Inside you will find the accounts of how Archimedes discovered the area of a parabolic segment ibn Al Haytham calculated the volume of a revolved area Jyesthadeva explained the infinite series for sine and cosine Wallis deduced the link between hyperbolas and logarithms Newton generalized the binomial theorem Leibniz discovered integration by parts and much more Each chapter ends with further results in the form of exercises by such luminaries as Pascal Maclaurin Barrow Cauchy and Euler **Mathematicians on Creativity** Peter Borwein, Peter Liljedahl, Helen Zhai, 2018-09-06 This book aims to shine a light on some of the issues of mathematical creativity It is neither a philosophical treatise nor the presentation of experimental results but a compilation of reflections from top caliber working mathematicians In their own words they discuss the art and practice of their work This approach highlights creative components of the field illustrates the dramatic variation by individual and hopes to express the vibrancy of creative minds at work Mathematicians on Creativity is meant for a general audience and is probably best read by Five Hundred Mathematical Challenges Edward J. Barbeau, Edward Barbeau, Murray S. Klamkin, William O. browsing J. Moser,1995 Contains 500 problems ranging over a wide spectrum of mathematics and of levels of difficulty Did It G. Edward Sandifer, 2020-08-03 The final 35 How Euler Did It columns are all collected in this book They are lightly edited versions of the columns as they actually appeared on MAA Online between March 2007 and February 2010

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