

John W. Dawson, Jr.

Why Prove it Again?

Alternative Proofs in Mathematical
Practice

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Why Prove It Again Alternative Proofs In Mathematical Practice

Derek Allan Holton, John Stillwell



Why Prove It Again Alternative Proofs In Mathematical Practice:

Why Prove it Again? Dawson, Jr. (John W.), 2015 This monograph considers several well known mathematical theorems and asks the question Why prove it again while examining alternative proofs It explores the different rationales mathematicians may have for pursuing and presenting new proofs of previously established results as well as how they judge whether two proofs of a given result are different While a number of books have examined alternative proofs of individual theorems this is the first that presents comparative case studies of other methods for a variety of different theorems The author begins by laying out the criteria for distinguishing among proofs and enumerates reasons why new proofs have for so long played a prominent role in mathematical practice He then outlines various purposes that alternative proofs may serve Each chapter that follows provides a detailed case study of alternative proofs for particular theorems including the Pythagorean Theorem the Fundamental Theorem of Arithmetic Desargues Theorem the Prime Number Theorem and the proof of the irreducibility of cyclotomic polynomials Why Prove It Again will appeal to a broad range of readers including historians and philosophers of mathematics students and practicing mathematicians Additionally teachers will find it to be a useful source of alternative methods of presenting material to their students

Why Prove it Again? John W. Dawson, Jr., 2015-07-15 This monograph considers several well known mathematical theorems and asks the question Why prove it again while examining alternative proofs It explores the different rationales mathematicians may have for pursuing and presenting new proofs of previously established results as well as how they judge whether two proofs of a given result are different While a number of books have examined alternative proofs of individual theorems this is the first that presents comparative case studies of other methods for a variety of different theorems The author begins by laying out the criteria for distinguishing among proofs and enumerates reasons why new proofs have for so long played a prominent role in mathematical practice He then outlines various purposes that alternative proofs may serve Each chapter that follows provides a detailed case study of alternative proofs for particular theorems including the Pythagorean Theorem the Fundamental Theorem of Arithmetic Desargues Theorem the Prime Number Theorem and the proof of the irreducibility of cyclotomic polynomials Why Prove It Again will appeal to a broad range of readers including historians and philosophers of mathematics students and practicing mathematicians Additionally teachers will find it to be a useful source of alternative methods of presenting material to their students

[Understanding the Generality of Mathematical Statements](#) Milena Damrau, 2024-02-02 In this open access book Milena Damrau investigates the understanding of generality of mathematical statements in first year university students and its relation to other proof related activities Through an experimental study she particularly analyses the effect of different types of arguments empirical generic and ordinary proofs and statements familiar and unfamiliar as well as true and false ones on several proof related activities The results reveal students struggles with the concept of generality how their understanding of generality is related to proof reading and construction and how

different types of arguments and statements impact students performance in other proof related activities The findings offer valuable insights for improving mathematics courses at the transition from school to university and highlight the need for more experimental studies in mathematics education

Philosophy of Computing Björn Lundgren, Nancy Abigail Nuñez Hernández, 2022-05-04 This book features a unique selection of works presented at the 2019 annual international conference of the International Association for Computing and Philosophy IACAP Every contribution has been peer reviewed revised and extended The included chapters are thematically diverse topics include epistemology dynamic epistemic logic topology philosophy of science and computation game theory and abductive inferences automated reasoning and mathematical proofs computer simulations scientific modelling applied ethics pedagogy human robot interactions and big data algorithms and artificial intelligence The volume is a testament to the value of interdisciplinary approaches to the computational and informational turn We live in a time of tremendous development which requires rigorous reflection on the philosophical nature of these technologies and how they are changing the world How can we understand these technologies How do these technologies change our understanding of the world And how do these technologies affect our place as humans in the world These questions and more are addressed in this volume which is of interest to philosophers engineers and computer scientists alike

Discrete Encounters Craig Bauer, 2020-05-14 Eschewing the often standard dry and static writing style of traditional textbooks Discrete Encounters provides a refreshing approach to discrete mathematics The author blends traditional course topics and applications with historical context pop culture references and open problems This book focuses on the historical development of the subject and provides fascinating details of the people behind the mathematics along with their motivations deepening readers appreciation of mathematics This unique book covers many of the same topics found in traditional textbooks but does so in an alternative entertaining style that better captures readers attention In addition to standard discrete mathematics material the author shows the interplay between the discrete and the continuous and includes high interest topics such as fractals chaos theory cellular automata money saving financial mathematics and much more Not only will readers gain a greater understanding of mathematics and its culture they will also be encouraged to further explore the subject Long lists of references at the end of each chapter make this easy Highlights Features fascinating historical context to motivate readers Text includes numerous pop culture references throughout to provide a more engaging reading experience Its unique topic structure presents a fresh approach The text s narrative style is that of a popular book not a dry textbook Includes the work of many living mathematicians Its multidisciplinary approach makes it ideal for liberal arts mathematics classes leisure reading or as a reference for professors looking to supplement traditional courses Contains many open problems Profusely illustrated

Rethinking Knowledge Carlo Cellucci, 2017-03-29 This monograph addresses the question of the increasing irrelevance of philosophy which has seen scientists as well as philosophers concluding that philosophy is dead and has dissolved into the sciences It seeks to answer the question of whether or not philosophy can still

be fruitful and what kind of philosophy can be such The author argues that from its very beginning philosophy has focused on knowledge and methods for acquiring knowledge This view however has generally been abandoned in the last century with the belief that unlike the sciences philosophy makes no observations or experiments and requires only thought Thus in order for philosophy to once again be relevant it needs to return to its roots and focus on knowledge as well as methods for acquiring knowledge Accordingly this book deals with several questions about knowledge that are essential to this view of philosophy including mathematical knowledge Coverage examines such issues as the nature of knowledge plausibility and common sense knowledge as problem solving modeling scientific knowledge mathematical objects definitions diagrams mathematics and reality and more This monograph presents a new approach to philosophy epistemology and the philosophy of mathematics It will appeal to graduate students and researchers with interests in the role of knowledge the analytic method models of science and mathematics and reality

Reverse Mathematics John Stillwell, 2019-09-24 This volume presents reverse mathematics to a general mathematical audience for the first time Stillwell gives a representative view of this field emphasizing basic analysis finding the right axioms to prove fundamental theorems and giving a novel approach to logic to logic

Elements of Mathematics John Stillwell, 2017-11-07 An exciting look at the world of elementary mathematics *Elements of Mathematics* takes readers on a fascinating tour that begins in elementary mathematics but as John Stillwell shows this subject is not as elementary or straightforward as one might think Not all topics that are part of today's elementary mathematics were always considered as such and great mathematical advances and discoveries had to occur in order for certain subjects to become elementary Stillwell examines elementary mathematics from a distinctive twenty first century viewpoint and describes not only the beauty and scope of the discipline but also its limits From Gaussian integers to propositional logic Stillwell delves into arithmetic computation algebra geometry calculus combinatorics probability and logic He discusses how each area ties into more advanced topics to build mathematics as a whole Through a rich collection of basic principles vivid examples and interesting problems Stillwell demonstrates that elementary mathematics becomes advanced with the intervention of infinity Infinity has been observed throughout mathematical history but the recent development of reverse mathematics confirms that infinity is essential for proving well known theorems and helps to determine the nature contours and borders of elementary mathematics *Elements of Mathematics* gives readers from high school students to professional mathematicians the highlights of elementary mathematics and glimpses of the parts of math beyond its boundaries

Research in History and Philosophy of Mathematics Maria Zack, Dirk Schlimm, 2022-05-25 This volume contains eleven papers that have been collected by the Canadian Society for History and Philosophy of Mathematics Soci t canadienne d histoire et de philosophie des math matiques It showcases rigorously reviewed contemporary scholarship on an interesting variety of topics in the history and philosophy of mathematics as well as the teaching of the history of mathematics Topics considered include The mathematics and astronomy in Nathaniel Torperly s only published work *Diclidides*

Coelometricae seu valvae astronomicae universal Connections between the work of Urbain Le Verrier Carl Gustav Jacob Jacobi and Augustin Louis Cauchy on the algebraic eigenvalue problem An evaluation of Ken Manders argument against conceiving of the diagrams in Euclid s Elements in semantic terms The development of undergraduate modern algebra courses in the United States Ways of using the history of mathematics to teach the foundations of mathematical analysis Written by leading scholars in the field these papers are accessible not only to mathematicians and students of the history and philosophy of mathematics but also to anyone with a general interest in mathematics

Relay Race To Infinity, The: Developments In Mathematics From Euclid To Fermat Derek Allan Holton, John Stillwell, 2024-10-08 Why were most historically important mathematicians wealthy Why were they often lawyers and many had pastors for fathers Why were original results sometimes discovered by two mathematicians independently within a short time of each other Why did the Italian Fibonacci speak Arabic It all began a couple of years ago when one of the authors started to write short biographies of important historical mathematicians for the teaching journal Australian Primary Mathematics Classroom It was felt that teachers generally knew very little about the way the subject developed or the people who developed it And it was felt that historical knowledge would help them see how the subject progressed and enable them to fit in with the historical episodes that would be of interest to students Clearly the book that developed contains mathematics up to the 17th century but we are keen to set the subject in those times to try to give short biographies of the people involved as well as provide a perspective of the events that led up to the times and led up to the mathematics Importantly it is shown that the maths enterprise was not undertaken by a small few but worked like a relay race One or a few might take up an idea and develop it but it often gets only so far Later others would take up the idea the baton and the relay race to find results continues

Wie kommt man darauf? Merlin Carl, 2017-08-21 Das Buch soll Studierende der Mathematik und verwandter Disziplinen in grundlegende Techniken und Prinzipien des selbstst ndigen mathematischen Aufgabensens einf hren Dazu werden zun chst konkrete Beweisprinzipien wie das Schubfachprinzip Invarianten Induktion oder R ckw rtsarbeiten anhand von Beispielen und au f hrlichen Erl uterungen eingef hrt ehe zu allgemeineren Strategien wie Beobachtung und Mustererkennung Verallgemeinerung Spezialisierung und Analogie bergegangen wird Bei den L sungen zu den zahlreichen Beispielaufgaben liegt der Schwerpunkt auf der Erkl rung wie man auf die jeweiligen Beweisschritte selbst h tte kommen k nnen Die so erlernten Strategien werden dann in verschiedenen mathematischen Gebieten erprobt n mlich der elementaren Zahlentheorie der Graphentheorie der endlichen Kombinatorik der linearen Algebra und der Analysis Jedes Kapitel schlie t mit zahlreichenbungsaufgaben

Tracking Reason Jody Azzouni, 2006 When ordinary people mathematicians among them take something to follow deductively from something else they are exposing the backbone of our self ascribed ability to reason Jody Azzouni investigates the connection between that ordinary notion of consequence and the formal analogues invented by logicians One claim of the book is that despite our apparent intuitive grasp of consequence we do not introspect

rules by which we reason nor do we grasp the scope and range of the domain as it were of our reasoning This point is illustrated with a close analysis of a paradigmatic case of ordinary reasoning mathematical proof Mathematics in Kant's Critical Philosophy Lisa Shabel,2017-09-25 Mathematics in Kant s Critical Philosophy provides a much needed reading and re reading of Kant s theory of the construction of mathematical concepts through a fully contextualized analysis In this work Lisa Shabel convincingly argues that it is only through an understanding of the relevant eighteenth century mathematics textbooks and the related mathematical practice can the material and context necessary for a successful interpretation of Kant s philosophy be provided This is borne out through sustained readings of Euclid and Woolf in particular which when brought together with Kant s work allows for the elucidation of several key issues and the reinterpretation of many hitherto opaque and long debated passages Logic-Based Program Synthesis and Transformation Gopal Gupta,Ricardo Peña,2015-04-20 This book constitutes the thoroughly refereed post conference proceedings of the 23rd International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2013 held in Madrid Spain in September 2013 The 13 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 21 submissions during two rounds of reviewing and improvement LOPSTR traditionally solicits papers in the areas of specification synthesis verification transformation analysis optimization composition security reuse applications and tools component based software development software architectures agent based software development and program refinement **Traffic and Transport Psychology** Talib Rothengatter,Raphael Denis Huguenin,2004-09-08 This volume gives an overview of the trends in Traffic and Transport Psychology It reflects the considerable development of the most important factors for driving a road vehicle and the variety of international research approaches The first part contains basic approaches and integrated models as well as general theories and their implementation into Traffic and Transport Psychology The second part deals with the driver especially cognition performance social and differential effects and impairment Important aspects are treated such as speed perception reaction times interaction risk acceptance aggression and gender differences Special chapters refer to performance and fatigue The third part focuses on safety driver support selection and influencing drivers by enforcement training and programs for the rehabilitation of traffic offenders Classic ergonomic methods are discussed as well as modern telematic devices or trends regarding driver assessment In the last part current developments are presented in relation to better mobility and the protection of the environment Questions are asked such as whether we could reduce the use of cars how travel behaviour can be modified or to what extent the use of alternatives to motor vehicles benefits safety as well as the environment This work is not only important for psychologists It should be read by all transport professionals interested in the application of psychology to traffic Methods of Mathematics Applied to Calculus, Probability, and Statistics Richard W. Hamming,2004-11-30 Understanding calculus is vital to the creative applications of mathematics in numerous areas This text focuses on the most widely used applications of mathematical methods including those related to other important fields

such as probability and statistics The four part treatment begins with algebra and analytic geometry and proceeds to an exploration of the calculus of algebraic functions and transcendental functions and applications In addition to three helpful appendixes the text features answers to some of the exercises Appropriate for advanced undergraduates and graduate students it is also a practical reference for professionals 1985 edition 310 figures 18 tables *Indian Engineering* Patrick Doyle,1905 The Mathematics Educator ,2009 **Easy as π ?** Oleg A. Ivanov,2013-11-11 The present book is rare even unique of its kind at least among mathematics texts published in Russian You have before you neither a textbook nor a monograph although these selected chapters from elementary mathematics certainly constitute a fine educational tool It is my opinion that this is more than just another book about mathematics and the art of teaching that subject Without considering the actual topics treated the author himself has described these in sufficient detail in of the book as a whole the Introduction I shall attempt to convey a general idea and describe the impressions it makes on the reader Almost every chapter begins by considering well known problems of elementary mathematics Now every worthwhile elementary problem has hidden behind its diverting formulation what might be called higher mathematics or more simply mathematics and it is this that the author demonstrates to the reader in this book It is thus to be expected that every chapter should contain subject matter that is far from elementary The end result of reading the book is that the material treated has become for the reader three dimensional as it were as in a hologram capable of being viewed from all sides **Bulletin of the Atomic Scientists** ,1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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