



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

Craig Bauer



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

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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

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

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

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 *Indian Engineering* Patrick Doyle,1905

The Mathematics Educator ,2009 **The Journal of Education** ,1893 *Software Creativity* Robert L. Glass,1995 If you like the author feel that software construction is primarily a problem solving activity all problem solving requires creativity software problem solving is deeply complex and software problem solving requires the ultimate in creativity then this book is for you In *Software Creativity* Robert L Glass answers the question Which is more important in software construction Brilliant process or brilliant people coming down solidly on the side of people Glass draws on more than 30 years of personal experience as a software engineer and educator to present an unorthodox approach to software problem solving that suggests solutions lie not in discipline formality and quantitative reasoning but in flexibility creativity and qualitative reasoning *The School World* ,1910 *MAA Notes* ,1983 **Essays in Humanistic Mathematics** Alvin Murray White,1993 **Mathematical Reviews** ,2007 **Engineering** ,1926 **Using Econometrics** Henry J. Cassidy,1981 Overview of regression analysis Alternative regression models Ordinal least squares OLS random variables and the central limit theorem The classical model Hypothesis testing and the t test Basic specification errors Time series analysis autocorrelation Artistic elements of econometrics **Scientific American** ,1879 [Dissertation Abstracts International](#) ,1981 **The Papers of the ACM SIGCSE Third Technical Symposium on Computer Science Education** Gerald L. Engel,Robert M. Aiken,1973 [The Post Office Electrical Engineers' Journal](#) ,1962

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Why Prove It Again Alternative Proofs In Mathematical Practice**

In a world inundated with displays and the cacophony of quick communication, the profound energy and emotional resonance of verbal beauty frequently fade into obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, set within the lyrical pages of **Why Prove It Again Alternative Proofs In Mathematical Practice**, a interesting function of fictional beauty that pulses with organic emotions, lies an memorable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this interesting opus guides viewers on a mental odyssey, softly exposing the latent potential and profound affect stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is main themes, dissect their charming publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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