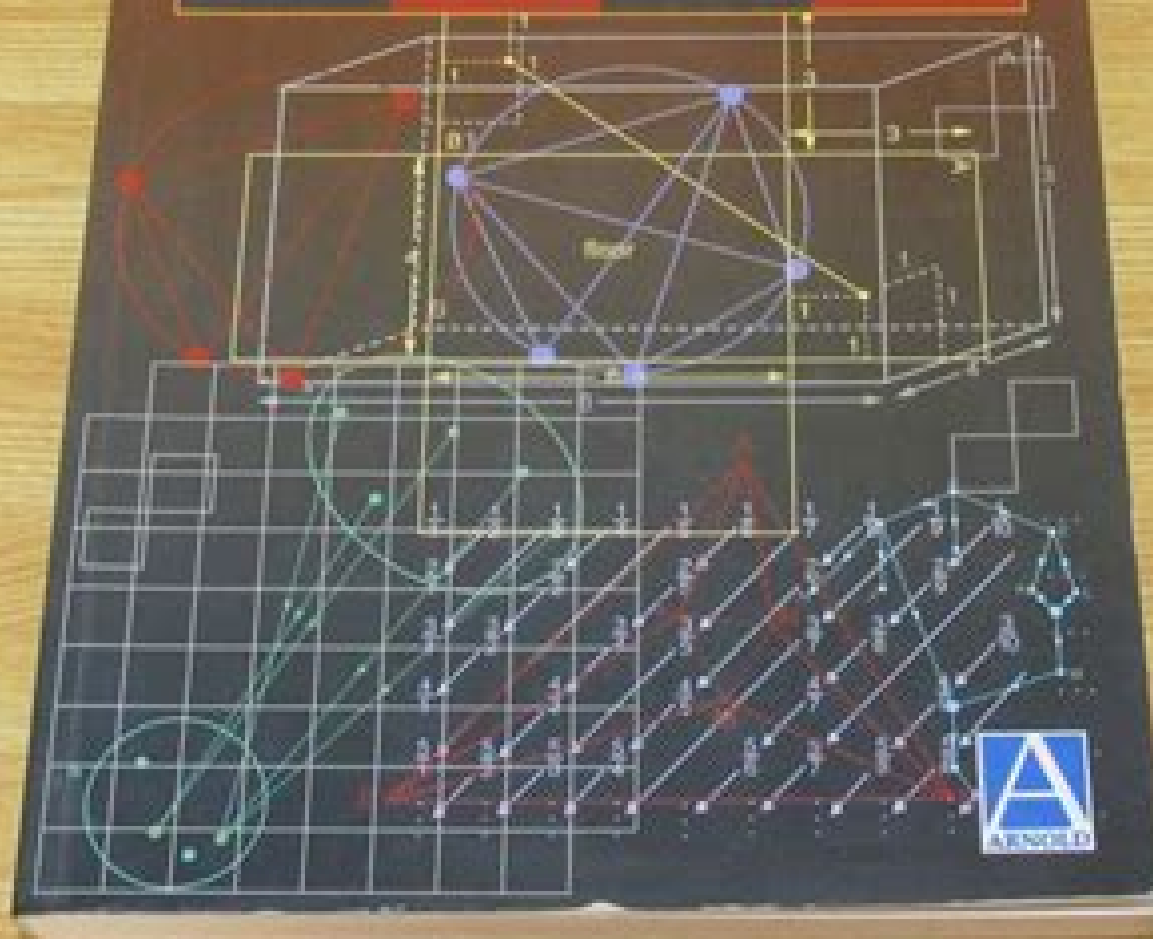


# NUMBERS & PROOFS

ROBERT ALLENBY



# Numbers And Proofs

**Daniel Ashlock, Colin Lee**



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Chapter 1 contains an introduction and provides a brief summary of some background material students may be unfamiliar with Chapters 2 and 3 introduce the basics of logic for students not yet familiar with these topics Included is material on Boolean logic propositions and predicates logical operations truth tables tautologies and contradictions rules of inference and logical arguments Chapter 4 introduces mathematical proofs including proof conventions direct proofs proof by contradiction and proof by contraposition Chapter 5 introduces the basics of naive set theory including Venn diagrams and operations on sets Chapter 6 introduces mathematical induction and recurrence relations Chapter 7 introduces set theoretic functions and covers injective surjective and bijective functions as well as permutations Chapter 8 covers the fundamental properties of the integers including primes unique factorization and Euclid's algorithm Chapter 9 is an introduction to combinatorics topics included are combinatorial proofs binomial and multinomial coefficients the Inclusion Exclusion principle and counting the number of surjective functions between finite sets Chapter 10 introduces relations and covers equivalence relations and partial orders Chapter 11 covers number bases number systems and operations Chapter 12 covers cardinality including basic results on countable and uncountable infinities and introduces cardinal numbers Chapter 13 expands on partial orders and introduces ordinal numbers Chapter 14 examines the paradoxes of naive set theory and introduces and discusses axiomatic set theory This chapter also includes Cantor's Paradox Russell's Paradox a discussion of axiomatic theories an exposition on Zermelo Fraenkel Set Theory with the Axiom of Choice and a brief explanation of Gödel's Incompleteness Theorems

**Introduction to Proofs in Mathematics** James Franklin, Albert Daoud, 1988      **Introduction to Mathematical Structures and Proofs** Larry Gerstein, 2013-11-21 This is a textbook for a one term course whose goal is to ease the transition from lower division calculus courses to upper division courses in linear and abstract algebra real and complex analysis number theory topology combinatorics and so on Without such a bridge course most upper division instructors feel the need to start their courses with the rudiments of logic set theory equivalence relations and other basic mathematical raw materials before getting on with the subject at hand Students who are new to higher mathematics are often startled to discover that mathematics is a subject of ideas and not just formulaic rituals and that they are now expected to understand and create mathematical proofs Mastery of an assortment of technical tricks may have carried the students through calculus but it is no longer a guarantee of academic success Students need experience in working with abstract ideas at a nontrivial level if they are to achieve the sophisticated blend of knowledge discipline and creativity that we call mathematical maturity I don't believe that theorem proving can be taught any more than question answering can be taught Nevertheless I have found that it is possible to guide students gently into the process of mathematical proof in such a way that they become comfortable with the experience and begin asking themselves questions that will lead them in the right direction

**Fundamentals of Mathematics** Bernd S. W. Schröder, 2010-08-16 An accessible introduction to abstract mathematics with an emphasis on proof writing Addressing the importance of constructing and understanding mathematical proofs

Fundamentals of Mathematics An Introduction to Proofs Logic Sets and Numbers introduces key concepts from logic and set theory as well as the fundamental definitions of algebra to prepare readers for further study in the field of mathematics The author supplies a seamless hands on presentation of number systems utilizing key elements of logic and set theory and encouraging readers to abide by the fundamental rule that you are not allowed to use any results that you have not proved yet The book begins with a focus on the elements of logic used in everyday mathematical language exposing readers to standard proof methods and Russell s Paradox Once this foundation is established subsequent chapters explore more rigorous mathematical exposition that outlines the requisite elements of Zermelo Fraenkel set theory and constructs the natural numbers and integers as well as rational real and complex numbers in a rigorous yet accessible manner Abstraction is introduced as a tool and special focus is dedicated to concrete accessible applications such as public key encryption that are made possible by abstract ideas The book concludes with a self contained proof of Abel s Theorem and an investigation of deeper set theory by introducing the Axiom of Choice ordinal numbers and cardinal numbers Throughout each chapter proofs are written in much detail with explicit indications that emphasize the main ideas and techniques of proof writing Exercises at varied levels of mathematical development allow readers to test their understanding of the material and a related Web site features video presentations for each topic which can be used along with the book or independently for self study Classroom tested to ensure a fluid and accessible presentation Fundamentals of Mathematics is an excellent book for mathematics courses on proofs logic and set theory at the upper undergraduate level as well as a supplement for transition courses that prepare students for the rigorous mathematical reasoning of advanced calculus real analysis and modern algebra The book is also a suitable reference for professionals in all areas of mathematics education who are interested in mathematical proofs and the foundation upon which all mathematics is built

*LOGIC, SETS AND THE TECHNIQUES OF MATHEMATICAL PROOFS* Brahima MBODJE, Ph.D., 2011-06-30 As its title indicates this book is about logic sets and mathematical proofs It is a careful patient and rigorous introduction for readers with very limited mathematical maturity It teaches the reader not only how to read a mathematical proof but also how to write one To achieve this we carefully lay out all the various proof methods encountered in mathematical discourse give their logical justifications and apply them to the study of topics such as real numbers relations functions sequences fine sets infinite sets countable sets uncountable sets and transfinite numbers whose mastery is important for anyone contemplating advanced studies in mathematics The book is completely self contained since the prerequisites for reading it are only a sound background in high school algebra Though this book is meant to be a companion specifically for senior high school pupils and college undergraduate students it will also be of immense value to anyone interested in acquiring the tools and way of thinking of the mathematician

**Proofs and Fundamentals** Ethan D. Bloch, 2013-12-01 In an effort to make advanced mathematics accessible to a wide variety of students and to give even the most mathematically inclined students a solid basis upon which to build their continuing study of mathematics there has been

a tendency in recent years to introduce students to the formulation and writing of rigorous mathematical proofs and to teach topics such as sets functions relations and countability in a transition course rather than in traditional courses such as linear algebra A transition course functions as a bridge between computational courses such as Calculus and more theoretical courses such as linear algebra and abstract algebra This text contains core topics that I believe any transition course should cover as well as some optional material intended to give the instructor some flexibility in designing a course The presentation is straightforward and focuses on the essentials without being too elementary too excessively pedagogical and too full of distractions Some of the features of this text are the following 1 Symbolic logic and the use of logical notation are kept to a minimum We discuss only what is absolutely necessary as is the case in most advanced mathematics courses that are not focused on logic per se

**Introduction to Proofs and Proof Strategies** Shay Fuchs, 2023-06-22 Emphasizing the creative nature of mathematics this conversational textbook guides students through the process of discovering a proof The material revolves around possible strategies to approaching a problem without classifying types of proofs or providing proof templates Instead it helps students develop the thinking skills needed to tackle mathematics when there is no clear algorithm or recipe to follow Beginning by discussing familiar and fundamental topics from a more theoretical perspective the book moves on to inequalities induction relations cardinality and elementary number theory The final supplementary chapters allow students to apply these strategies to the topics they will learn in future courses With its focus on doing mathematics through 200 worked examples over 370 problems illustrations discussions and minimal prerequisites this course will be indispensable to first and second year students in mathematics statistics and computer science Instructor resources include solutions to select problems

**Proofs and Logic: A Comprehensive Guide to Mathematical Reasoning** Pasquale De Marco, 2025-03-15 In the realm of mathematics proofs stand as the gatekeepers of truth ensuring that mathematical statements are not mere assertions but logical consequences of established axioms and definitions Proofs and Logic A Comprehensive Guide to Mathematical Reasoning is your gateway to mastering the art of mathematical proof construction This comprehensive book is meticulously crafted to empower you with the skills and techniques necessary to navigate the intricate world of mathematical arguments Whether you are a student seeking to excel in your studies a teacher aiming to inspire your students or a professional mathematician seeking to expand your knowledge this book is your essential companion With crystal clear explanations engaging examples and thought provoking exercises this book takes you on a journey through the diverse landscape of proofs From direct proofs that establish the truth of a statement through a sequence of logical steps to proofs by contradiction that reveal the absurdity of a statement's negation you will gain a deep understanding of the various methods of proof construction Beyond the realm of proofs this book delves into the foundations of logic set theory propositional logic and predicate logic providing you with a solid grasp of the formal structure of mathematical statements With this knowledge you will be able to analyze and evaluate mathematical arguments with precision and rigor As you progress through this book

you will not only develop a profound appreciation for the beauty and elegance of mathematical proofs but also cultivate a valuable skill set that will serve you well in your academic and professional endeavors Whether you aspire to pursue a career in mathematics science engineering or any field that values logical reasoning this book is your indispensable guide Join us on this intellectual adventure as we unlock the power of logical reasoning and embark on a journey into the fascinating world of mathematical proofs Proofs and Logic is more than just a book it is an invitation to embark on a transformative learning experience that will reshape your understanding of mathematics and empower you to tackle complex problems with confidence If you like this book write a review

Taking the "Oof!" Out of Proofs Alexandr Draganov,2024-04-08 This book introduces readers to the art of doing mathematical proofs Proofs are the glue that holds mathematics together They make connections between math concepts and show why things work the way they do This book teaches the art of proofs using familiar high school concepts such as numbers polynomials functions and trigonometry It retells math as a story where the next chapter follows from the previous one Readers will see how various mathematical concepts are tied and will see that mathematics is not a pile of formulas and facts rather it has an orderly and beautiful edifice The author begins with basic rules of logic and then progresses through the topics already familiar to the students numbers inequalities functions polynomials exponents and trigonometric functions There are also beautiful proofs for conic sections sequences and Fibonacci numbers Each chapter has exercises for the reader Reviewer Comments I find the book very impressive The choice and sequence of topics is excellent and it is wonderful to have all of these things together in one volume Theorems are clearly stated and proofs are accurate Michael Comenetz The thoroughness of the narrative is one of the main strengths of the book The book provides a perfect illustration of mathematical thinking Each step of a given derivation is precise and clear Julie Gershunskaya Draganov's book stands out from the many competing books Draganov's goal is to show that mathematics depends on the notion of proof Unlike other transition books he addresses mathematical topics at an accessible level rather than topics studied later in the university curriculum Ken Rosen

**Proofs and Algorithms** Gilles Dowek,2011-01-11 Logic is a branch of philosophy mathematics and computer science It studies the required methods to determine whether a statement is true such as reasoning and computation Proofs and Algorithms Introduction to Logic and Computability is an introduction to the fundamental concepts of contemporary logic those of a proof a computable function a model and a set It presents a series of results both positive and negative Church's undecidability theorem Godel's incompleteness theorem the theorem asserting the semi decidability of provability that have profoundly changed our vision of reasoning computation and finally truth itself Designed for undergraduate students this book presents all that philosophers mathematicians and computer scientists should know about logic

**Mathematical Problems and Proofs** Branislav Kisacanin,2007-05-08 A gentle introduction to the highly sophisticated world of discrete mathematics Mathematical Problems and Proofs presents topics ranging from elementary definitions and theorems to advanced topics such as cardinal numbers generating functions

properties of Fibonacci numbers and Euclidean algorithm This excellent primer illustrates more than 150 solutions and proofs thoroughly explained in clear language The generous historical references and anecdotes interspersed throughout the text create interesting intermissions that will fuel readers eagerness to inquire further about the topics and some of our greatest mathematicians The author guides readers through the process of solving enigmatic proofs and problems and assists them in making the transition from problem solving to theorem proving At once a requisite text and an enjoyable read Mathematical Problems and Proofs is an excellent entrance to discrete mathematics for advanced students interested in mathematics engineering and science      **Introduction to Mathematical Structures and Proofs** Larry J.

Gerstein,2012-06-05 As a student moves from basic calculus courses into upper division courses in linear and abstract algebra real and complex analysis number theory topology and so on a bridge course can help ensure a smooth transition Introduction to Mathematical Structures and Proofs is a textbook intended for such a course or for self study This book introduces an array of fundamental mathematical structures It also explores the delicate balance of intuition and rigor and the flexible thinking required to prove a nontrivial result In short this book seeks to enhance the mathematical maturity of the reader The new material in this second edition includes a section on graph theory several new sections on number theory including primitive roots with an application to card shuffling and a brief introduction to the complex numbers including a section on the arithmetic of the Gaussian integers Solutions for even numbered exercises are available on [springer.com](http://springer.com) for instructors adopting the text for a course      *Number Theory* John J. Watkins,2013-12-29 An introductory textbook with a unique historical approach to teaching number theory The natural numbers have been studied for thousands of years yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important This book emphasizes the historical development of number theory describing methods theorems and proofs in the contexts in which they originated and providing an accessible introduction to one of the most fascinating subjects in mathematics Written in an informal style by an award winning teacher Number Theory covers prime numbers Fibonacci numbers and a host of other essential topics in number theory while also telling the stories of the great mathematicians behind these developments including Euclid Carl Friedrich Gauss and Sophie Germain This one of a kind introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material as well as fully worked solutions for many of these problems It also includes helpful hints for when students are unsure of how to get started on a given problem Uses a unique historical approach to teaching number theory Features numerous problems helpful hints and fully worked solutions Discusses fun topics like Pythagorean tuning in music Sudoku puzzles and arithmetic progressions of primes Includes an introduction to Sage an easy to learn yet powerful open source mathematics software package Ideal for undergraduate mathematics majors as well as non math majors Digital solutions manual available only to professors      **Proofs for All Mathematical Calculations** Louis Traub,1914      **A**



**Transition to Proof** Neil R. Nicholson, 2019-03-21 A Transition to Proof An Introduction to Advanced Mathematics describes writing proofs as a creative process There is a lot that goes into creating a mathematical proof before writing it Ample discussion of how to figure out the nuts and bolts of the proof takes place thought processes scratch work and ways to attack problems Readers will learn not just how to write mathematics but also how to do mathematics They will then learn to communicate mathematics effectively The text emphasizes the creativity intuition and correct mathematical exposition as it prepares students for courses beyond the calculus sequence The author urges readers to work to define their mathematical voices This is done with style tips and strict mathematical do s and don ts which are presented in eye catching text boxes throughout the text The end result enables readers to fully understand the fundamentals of proof Features The text is aimed at transition courses preparing students to take analysis Promotes creativity intuition and accuracy in exposition The language of proof is established in the first two chapters which cover logic and set theory Includes chapters on cardinality and introductory topology

*The Art of Proof* Matthias Beck, Ross Geoghegan, 2010-08-17 The Art of Proof is designed for a one semester or two quarter course A typical student will have studied calculus perhaps also linear algebra with reasonable success With an artful mixture of chatty style and interesting examples the student s previous intuitive knowledge is placed on solid intellectual ground The topics covered include integers induction algorithms real numbers rational numbers modular arithmetic limits and uncountable sets Methods such as axiom theorem and proof are taught while discussing the mathematics rather than in abstract isolation The book ends with short essays on further topics suitable for seminar style presentation by small teams of students either in class or in a mathematics club setting These include continuity cryptography groups complex numbers ordinal number and generating functions

**The Iowa Normal Monthly** ,1887

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