

# **An Introduction to Mathematical Reasoning**

**numbers, sets and functions**

**PETER J. ECCLES**



# An Introduction To Mathematical Reasoning

**Tamara J. Lakins**

## An Introduction To Mathematical Reasoning:

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**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

**The Tools of Mathematical Reasoning** Tamara J. Lakins,2016-09-08 This accessible textbook gives beginning undergraduate mathematics students a first exposure to introductory logic proofs sets functions number theory relations finite and infinite sets and the foundations of analysis The book provides students with a quick path to writing proofs and a practical collection of tools that they can use in later mathematics courses such as abstract algebra and analysis The importance of the logical structure of a mathematical statement as a framework for finding a proof of that statement and the proper use of variables is an early and consistent theme used throughout the book

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**Mathematical Logic and Set Theory** Michael L. O'Leary,2015-10-21 A mathematical introduction to the theory and applications of logic and set theory with an emphasis on writing proofs Highlighting the applications and notations of basic mathematical concepts within the framework of logic and set theory A First Course in Mathematical Logic and Set Theory introduces how logic is used to prepare and structure proofs and solve more complex problems The book begins with propositional logic including two column proofs and truth table applications followed by first order logic which provides the structure for writing mathematical proofs Set theory is then introduced and serves as the basis for defining relations functions numbers mathematical induction ordinals and cardinals The book concludes with a primer on basic model theory with applications to abstract algebra A First Course in Mathematical Logic and Set Theory also includes Section exercises designed to show the interactions between topics and reinforce the presented ideas and concepts Numerous examples that illustrate theorems and employ basic concepts such as Euclid's lemma the Fibonacci sequence and unique factorization Coverage of important theorems including the well ordering theorem completeness theorem compactness theorem as well as the theorems of Lwenheim Skolem Burali Forti Hartogs Cantor Schr der Bernstein and K nig An excellent textbook for students studying the foundations of mathematics and mathematical proofs A First Course in Mathematical Logic and Set Theory is also appropriate for readers preparing for careers in mathematics education or computer science In addition the book is ideal for introductory courses on mathematical logic and/or set theory and appropriate for upper undergraduate transition courses with rigorous mathematical reasoning involving algebra number theory or analysis

### **Discrete**

**Mathematics** Douglas E. Ensley,J. Winston Crawley,2005-10-07 These active and well known authors have come together to create a fresh innovative and timely approach to Discrete Math One innovation uses several major threads to help weave core topics into a cohesive whole Throughout the book the application of mathematical reasoning is emphasized to solve problems while the authors guide the student in thinking about reading and writing proofs in a wide variety of contexts Another important content thread as the sub title implies is the focus on mathematical puzzles games and magic tricks to engage students    *Doing Mathematics* Steven Galovich,1993 Mathematics majors learn the underlying concepts and how to apply them to problem solving and proofs in this introduction to the fundamentals in mathematical reasoning and the basic properties of the real numbers and set theory Proof techniques are covered in detail so that students gain the background they need for courses in abstract algebra and real analysis    *How the Other Half Thinks* Sherman K. Stein,2002 Are applied in areas such as computers measurement of astronomical distances and cell growth The mathematical style of thinking is one that everyone can use to understand the world whether they use the creative right half of the brain or rely more on the analytical left half How the Other Half Thinks is for the novice and the skilled the poet and the scientist who can each be immersed in the mathematical world not as a spectator but as a participant Book jacket    An Introduction to Logic Horace William Brindley Joseph,1906

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