

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:

An Introduction to Mathematical Reasoning Peter J. Eccles, 1997-12-11 NDICE Part I Mathematical Statements and Proofs 1 The language of mathematics 2 Implications 3 Proofs 4 Proof by contradiction 5 The induction principle Part II Sets and Functions 6 The language of set theory 7 Quantifiers 8 Functions 9 Injections surjections and bijections Part III Numbers and Counting 10 Counting 11 Properties of finite sets 12 Counting functions and subsets 13 Number systems 14 Counting infinite sets Part IV Arithmetic 15 The division theorem 16 The Euclidean algorithm 17 Consequences of the Euclidean algorithm 18 Linear diophantine equations Part V Modular Arithmetic 19 Congruences of integers 20 Linear congruences 21 Congruence classes and the arithmetic of remainders 22 Partitions and equivalence relations Part VI Prime Numbers 23 The sequence of prime numbers 24 Congruence modulo a prime Solutions to exercises **Discrete Mathematics** Susanna S. Epp, 2011 **An Introduction to Mathematical Reasoning** Boris Iglewicz, Judith Stoye, 1973 What is mathematics Symbolic logic A review of number and notation Further review topics Introduction to proofs Direct proof I Direct Proof II Indirect proof Analogy and geometric proof *Discrete Mathematics: Introduction to Mathematical Reasoning* Susanna S. Epp, 2014-07-18 Susanna Epp's DISCRETE MATHEMATICS AN INTRODUCTION TO MATHEMATICAL REASONING provides the same clear introduction to discrete mathematics and mathematical reasoning as her highly acclaimed DISCRETE MATHEMATICS WITH APPLICATIONS but in a compact form that focuses on core topics and omits certain applications usually taught in other courses The book is appropriate for use in a discrete mathematics course that emphasizes essential topics or in a mathematics major or minor course that serves as a transition to abstract mathematical thinking The ideas of discrete mathematics underlie and are essential to the science and technology of the computer age This book offers a synergistic union of the major themes of discrete mathematics together with the reasoning that underlies mathematical thought Renowned for her lucid accessible prose Epp explains complex abstract concepts with clarity and precision helping students develop the ability to think abstractly as they study each topic In doing so the book provides students with a strong foundation both for computer science and for other upper level mathematics courses Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **An Introduction to Mathematical Reasoning** Peter Eccles, 1997 The purpose of this book is to introduce the basic ideas of mathematical proof to students embarking on university mathematics The emphasis is on helping the reader in understanding and constructing proofs and writing clear mathematics This is achieved by exploring set theory combinatorics and number theory topics which include many fundamental ideas which are part of the tool kit of any mathematician This material illustrates how familiar ideas can be formulated rigorously provides examples demonstrating a wide range of basic methods of proof and includes some of the classic proofs The book presents mathematics as a continually developing subject Material meeting the needs of readers from a wide range of backgrounds is included Over 250 problems include questions to interest and

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Mathematical Reasoning Theodore A. Sundstrom, 2007 Focusing on the formal development of mathematics this book shows readers how to read understand write and construct mathematical proofs Uses elementary number theory and congruence arithmetic throughout Focuses on writing in mathematics Reviews prior mathematical work with Preview Activities at the start of each section Includes Activities throughout that relate to the material contained in each section Focuses on Congruence Notation and Elementary Number Theory throughout For professionals in the sciences or engineering who need to brush up on their advanced mathematics skills Mathematical Reasoning Writing and Proof 2 E Theodore Sundstrom **Introduction to Reasoning and Proof** Karren Schultz-Ferrell, Brenda Hammond, Josepha Robles, 2007 NCTM's Process Standards were designed to support teaching that helps children develop independent effective mathematical thinking The books in the Heinemann Math Process Standards Series give every elementary teacher the opportunity to explore each one of the standards in depth And with language and examples that don't require prior math training to understand the series offers friendly reassuring advice to any teacher preparing to embrace the Process Standards In *Introduction to Reasoning and Proof* Karren Shultz Ferrell Brenda Hammond and Josepha Robles familiarize you with ways to help students explore their reasoning and support their mathematical thinking They offer an array of entry points for understanding planning and teaching including strategies that help students develop strong mathematical reasoning and construct solid justifications for their thinking Full of activities that are modifiable for immediate use with students of all levels and written by veteran teachers for teachers of every level of experience *Introduction to Reasoning and Proof* highlights the importance of encouraging children to describe their reasoning about mathematical activities while also recommending ways to question students about their conclusions and their thought processes in ways that help support classroom wide learning Best of all like all the titles in the Math Process Standards Series *Introduction to Reasoning and Proof* comes with two powerful tools to help you get started and plan well a CD ROM with activities customizable to match your lessons and a correlation guide that helps you match mathematical content with the processes it utilizes If your students could benefit from more opportunities to explain their reasoning about math concepts Or if you're simply looking for new ways to work the reasoning and proof standards into your curriculum read dog ear and teach with *Introduction to Reasoning and Proof* And if you'd like to learn about any of NCTM's process standards or if you're looking for new classroom tested

ways to address them in your math teaching look no further than Heinemann's Math Process Standards Series. You'll find them explained in the most understandable and practical way from one teacher to another.

Elements of Mathematical and Logical Reasoning. An Introduction Alberto Fragio Gistau, 2020

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.

Studyguide for Discrete Mathematics Cram101 Textbook Reviews, 2012-08

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A First Course in 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 Löwenheim Skolem Burali Forti Hartogs Cantor Schröder Bernstein and König 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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