

# Proofs and Fundamentals



## A First Course in Abstract Mathematics

**Lemma 4.3.4.** *Let  $f: A \rightarrow B$  be a function.*

- (i) *If  $f$  has an inverse, then the inverse is unique.*
- (ii) *If  $f$  has a right inverse  $g$  and a left inverse  $h$ , then  $g = h$  and  $f$  has an inverse.*
- (iii) *If  $f$  has an inverse  $g$ , then  $g$  has an inverse, which is  $f$ .*



**Ethan D. Bloch**

**Theorem 4.4.4.** *Let  $A$  and  $B$  be non-empty sets and let  $f: A \rightarrow B$  be a function.*

- (i) *The function  $f$  is surjective iff  $a \in A$  and  $b \in B$  implies  $a \in f^{-1}(b)$  for all  $b \in B$ .*
- (ii) *The function  $f$  is injective iff  $f(a) = f(b)$  implies  $a = b$  for all  $a, b \in A$ .*

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# Proofs And Fundamentals A First Course In Abstract Mathematics

**VM Jensen**



## **Proofs And Fundamentals A First Course In Abstract Mathematics:**

*Proofs and Fundamentals* Ethan D. Bloch, 2000-04-20 The aim of this book is to help students write mathematics better Throughout it are large exercise sets well integrated with the text and varying appropriately from easy to hard Basic issues are treated and attention is given to small issues like not placing a mathematical symbol directly after a punctuation mark And it provides many examples of what students should think and what they should write and how these two are often not the same

**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 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

**Proofs and Fundamentals** Ethan D. Bloch, 2014-09-01 The Nuts and Bolts of Proofs Antonella Cupillari, 2012-01-05 Annotation The Nuts and Bolts of Proofs instructs students on the primary basic logic of mathematical proofs showing how proofs of mathematical statements work The text provides basic core techniques of how to read and write proofs through examples The basic mechanics of proofs are provided for a methodical approach in gaining an understanding of the fundamentals to help students reach different results A variety of fundamental proofs demonstrate the basic steps in the construction of a proof and numerous examples illustrate the method and detail necessary to prove various kinds of theorems Jumps right in with the needed vocabulary gets students thinking like mathematicians from the beginning Offers a large variety of examples and problems with solutions for students to work through on their own Includes a collection of exercises without solutions to help instructors prepare assignments Contains an extensive list of basic mathematical definitions and concepts needed in abstract mathematics

*The Real Numbers and Real Analysis* Ethan D. Bloch, 2011-05-14 This text is a rigorous detailed introduction to real analysis that presents the fundamentals with clear exposition and carefully written definitions theorems and proofs It is organized in a distinctive flexible way that would make it equally appropriate to undergraduate mathematics majors who want to continue in mathematics and to future mathematics teachers who want to understand the theory behind calculus The Real Numbers and Real Analysis will serve as an excellent one semester text for undergraduates majoring in mathematics

and for students in mathematics education who want a thorough understanding of the theory behind the real number system and calculus

**Mathematical Analysis Fundamentals** Agamirza Bashirov, 2014-03-27 The author's goal is a rigorous presentation of the fundamentals of analysis starting from elementary level and moving to the advanced coursework The curriculum of all mathematics pure or applied and physics programs include a compulsory course in mathematical analysis This book will serve as can serve a main textbook of such one semester courses The book can also serve as additional reading for such courses as real analysis functional analysis harmonic analysis etc For non math major students requiring math beyond calculus this is a more friendly approach than many math centric options Friendly and well rounded presentation of pre analysis topics such as sets proof techniques and systems of numbers Deeper discussion of the basic concept of convergence for the system of real numbers pointing out its specific features and for metric spaces Presentation of Riemann integration and its place in the whole integration theory for single variable including the Kurzweil Henstock integration Elements of multiplicative calculus aiming to demonstrate the non absoluteness of Newtonian calculus

*Modern Algebra with Applications* William J. Gilbert, W. Keith Nicholson, 2004-01-30 Praise for the first edition This book is clearly written and presents a large number of examples illustrating the theory there is no other book of comparable content available Because of its detailed coverage of applications generally neglected in the literature it is a desirable if not essential addition to undergraduate mathematics and computer science libraries CHOICE As a cornerstone of mathematical science the importance of modern algebra and discrete structures to many areas of science and technology is apparent and growing with extensive use in computing science physics chemistry and data communications as well as in areas of mathematics such as combinatorics Blending the theoretical with the practical in the instruction of modern algebra *Modern Algebra with Applications* Second Edition provides interesting and important applications of this subject effectively holding your interest and creating a more seamless method of instruction Incorporating the applications of modern algebra throughout its authoritative treatment of the subject this book covers the full complement of group ring and field theory typically contained in a standard modern algebra course Numerous examples are included in each chapter and answers to odd numbered exercises are appended in the back of the text Chapter topics include Boolean Algebras Polynomial and Euclidean Rings Groups Quotient Rings Quotient Groups Field Extensions Symmetry Groups in Three Dimensions Latin Squares Plya Burnside Method of Enumeration Geometrical Constructions Monoids and Machines Error Correcting Codes Rings and Fields In addition to improvements in exposition this fully updated Second Edition also contains new material on order of an element and cyclic groups more details about the lattice of divisors of an integer and new historical notes Filled with in depth insights and over 600 exercises of varying difficulty *Modern Algebra with Applications* Second Edition can help anyone appreciate and understand this subject

Mathematical Proofs Gary Chartrand, Albert D. Polimeni, Ping Zhang, 2002 *Mathematical Proofs* is designed to prepare students for the more abstract mathematics courses that follow calculus This text

introduces students to proof techniques and writing proofs of their own As such it is an introduction to the mathematics enterprise providing solid introductions to relations functions and cardinalities of sets **Mathematica - revue d'analyse numérique et de théorie de l'approximation** ,2001 **The Mathematical Gazette** ,2001 **Revue roumaine de mathématiques pures et appliquées** ,2001 **Mathematical Reviews** ,2006 Journal of analysis and its application ,2001 *Choice* ,2000 **Introduction to Topology** Colin Conrad Adams,Robert David Franzosa,2008 Learn the basics of point set topology with the understanding of its real world application to a variety of other subjects including science economics engineering and other areas of mathematics Introduces topology as an important and fascinating mathematics discipline to retain the readers interest in the subject Is written in an accessible way for readers to understand the usefulness and importance of the application of topology to other fields Introduces topology concepts combined with their real world application to subjects such DNA heart stimulation population modeling cosmology and computer graphics Covers topics including knot theory degree theory dynamical systems and chaos graph theory metric spaces connectedness and compactness A useful reference for readers wanting an intuitive introduction to topology American Book Publishing Record ,2000-07 Subject Guide to Books in Print ,2001 Anuario filosófico ,2001 数学的拓扑学,2003 Ben shu cong fang fa xue de jiao du Dui luo ji fen xi zhei zhong fang fa de te xing Zhong lei Gong neng he xian du jin xing quan mian de Xi tong xing de yan jiu Yi zhong guo ming bian zhi xue wei fan yu Tan suo luo ji fen xi zai ci fan yu nei ying yong de ke xing xing *Praxis der Mathematik in der Schule* ,2001

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