

FOURTH EDITION

The Nuts and Bolts of Proofs

An Introduction to Mathematical Proofs



ANTONELLA CUPILLARI



Nuts And Bolts Of Proofs

Thomas P. Dence, Joseph B. Dence



Nuts And Bolts Of Proofs:

The Nuts and Bolts of Proofs Antonella Cupillari, 2023-01-05 *The Nuts and Bolts of Proofs* An Introduction to Mathematical Proofs Fifth Edition provides basic logic of mathematical proofs and how they work The book offers techniques for both reading and writing proofs discusses techniques in proving if then statements by contrapositive and proofing by contradiction includes the negation statement and or examines various theorems such as the if and only if equivalence theorems existence theorems and the uniqueness theorems In addition the use of counter examples mathematical induction composite statements including multiple hypothesis and multiple conclusions and equality of numbers are also covered The book also provides mathematical topics for practicing proof techniques Included here are the Cartesian products indexed families functions and relations The last chapter of the book provides review exercises on various topics Undergraduate students in engineering and physical science will find this book accessible as well as invaluable Jumps right in with the needed vocabulary to get 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

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How to Read and Do Proofs Daniel Solow, 2013-07-29 This text makes a great supplement and provides a systematic approach for teaching undergraduate and graduate students how to read understand think about and do proofs The approach is to categorize identify and explain at the student's level the various techniques that are used repeatedly in all proofs regardless of the subject in which the proofs arise How to Read and Do Proofs also explains when each technique is likely to be used based on certain key words that appear in the problem under consideration Doing so enables students to choose a technique consciously based on the form of the problem

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 **Advanced Calculus** Thomas P. Dence, Joseph B. Dence, 2009-12-02 Advanced Calculus explores the theory of calculus and highlights the connections between calculus and real analysis providing a mathematically sophisticated introduction to functional analytical concepts The text is interesting to read and includes many illustrative worked out examples and instructive exercises and precise historical notes to aid in further exploration of calculus It covers exponential function and the development of trigonometric functions from the integral The text is designed for a one semester advanced calculus course for advanced undergraduates or graduate students Appropriate rigor for a one semester advanced calculus course Presents modern materials and nontraditional ways of stating and proving some results Includes precise historical notes throughout the book outstanding feature is the collection of exercises in each chapter Provides coverage of exponential function and the development of trigonometric functions from the integral

Understanding Mathematical Proof John Taylor, Rowan Garnier, 2016-04-19 The notion of proof is central to mathematics yet it is one of the most difficult aspects of the subject to teach and master In particular undergraduate mathematics students often experience difficulties in understanding and constructing proofs Understanding Mathematical Proof describes the nature of mathematical proof explores the various techn **Debugging by Thinking** Robert C. Metzger, 2004 Debugging by Thinking A Multi Disciplinary Approach is the first book to apply the wisdom of six disciplines logic mathematics psychology safety analysis computer science and engineering to the problem of debugging It uses the methods of literary detectives such as Sherlock Holmes the techniques of mathematical problem solving the results of research into the cognitive psychology of human error the root cause analyses of safety experts the compiler analyses of computer science and the processes of modern engineering to define a systematic approach to identifying and correcting software errors Language Independent Methods Examples are given in Java and C Complete source code shows actual bugs rather than contrived examples Examples are accessible with no more knowledge than a course in Data Structures and Algorithms requires A thought process diary shows how the author actually resolved the problems as they occurred

Elements of the Theory of Numbers Joseph B. Dence, Thomas P. Dence, 1999-01-20 Elements of the Theory of Numbers teaches students how to develop implement and test numerical methods for standard mathematical problems The authors have created a two pronged pedagogical approach that integrates analysis and algebra with classical number theory Making greater use of the language and concepts in algebra and analysis than is traditionally encountered in introductory courses this pedagogical approach helps to instill in the minds of the students the idea of the unity of mathematics Elements of the Theory of Numbers is a superb summary of classical material as well as allowing the reader to take a look at the exciting role of analysis and algebra in number theory In depth coverage of classical number theory Thorough discussion of the theory of groups and rings Includes application of Taylor polynomials Contains more advanced material than other texts Illustrates the results of a theorem with an example Excellent presentation of the standard computational exercises Nearly

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