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Theorem Proving with the Real Numbers



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Theorem Proving With The Real Numbers

Lei Shi



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Theorem Proving with the Real Numbers John Robert Harrison, 1996 Abstract This thesis discusses the use of the real numbers in theorem proving. Typically theorem provers only support a few discrete datatypes such as the natural numbers. However, the availability of the real numbers opens up many interesting and important application areas such as the verification of floating point hardware and hybrid systems. It also allows the formalization of many more branches of classical mathematics which is particularly relevant for attempts to inject more rigour into computer algebra systems. Our work is conducted in a version of the HOL theorem prover. We describe the rigorous definitional construction of the real numbers using a new version of Cantor's method and the formalization of a significant portion of real analysis. We also describe an advanced derived decision procedure for the Tarski subset of real algebra as well as some more modest but practically useful tools for automating explicit calculations and routine linear arithmetic reasoning. Finally we consider in more detail two interesting application areas. We discuss the desirability of combining the rigour of theorem provers with the power and convenience of computer algebra systems and explain a method we have used in practice to achieve this. We then move on to the verification of floating point hardware. After a careful discussion of possible correctness specifications we report on two case studies, one involving a transcendental function. We aim to show that a theory of real numbers is useful in practice and interesting in theory and that the LCF style of theorem proving is well suited to the kind of work we describe. We hope also to convince the reader that the kind of mathematics needed for applications is well within the abilities of current theorem proving technology.

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

An Introduction to Proof through Real Analysis Daniel J. Madden, Jason A. Aubrey, 2017-09-12 An engaging and accessible introduction to mathematical proof incorporating ideas from real analysis A mathematical proof is an inferential argument for a mathematical statement Since the time of the ancient Greek mathematicians the proof has been a cornerstone of the science of mathematics The goal of this book is to help students learn to follow and understand the function and structure of mathematical proof and to produce proofs of their own An Introduction to Proof through Real Analysis is based on course material developed and refined over thirty years by Professor Daniel J Madden and was designed to function as a complete text for both first proofs and first analysis courses Written in an engaging and accessible narrative style this book systematically covers the basic techniques of proof writing beginning with real numbers and progressing to logic set theory topology and continuity The book proceeds from natural numbers to rational numbers in a familiar way and justifies the need for a rigorous definition of real numbers The mathematical climax of the story it tells is the Intermediate Value Theorem which justifies the notion that the real numbers are sufficient for solving all geometric problems Concentrates solely on designing proofs by placing instruction on proof writing on top of discussions of specific mathematical subjects Departs from traditional guides to proofs by incorporating elements of both real analysis and algebraic representation Written in an engaging narrative style to tell the story of proof and its meaning function and construction Uses a particular mathematical idea as the focus of each type of proof presented Developed from material that has been class tested and fine tuned over thirty years in university introductory courses An Introduction to Proof through Real Analysis is the ideal introductory text to proofs for second and third year undergraduate mathematics students especially those who have completed a calculus sequence students learning real analysis for the first time and those learning proofs for the first time Daniel J Madden PhD is an Associate Professor of Mathematics at The University of Arizona Tucson Arizona USA He has taught a junior level course introducing students to the idea of a rigorous proof based on real analysis almost every semester since 1990 Dr Madden is the winner of the 2015 Southwest Section of the Mathematical Association of America Distinguished Teacher Award Jason A Aubrey PhD is Assistant Professor of Mathematics and Director Mathematics Center of the University of Arizona

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

NASA Formal Methods Julia M. Badger, Kristin Yvonne Rozier, 2014-04-23 This book constitutes the refereed proceedings of the 6th International Symposium on NASA Formal Methods NFM 2014 held in Houston TX USA April 29 May 1 2014 The 20 revised regular papers presented together with 9 short papers were carefully reviewed and selected from 107 submissions The topics include model checking theorem proving static analysis model based development runtime monitoring formal approaches to fault tolerance applications of formal methods to aerospace systems formal analysis of cyber physical systems including hybrid and embedded systems formal methods in systems engineering modeling requirements and specifications requirements generation specification debugging formal validation of specifications use of formal methods in safety cases use of formal methods in human machine interaction analysis formal methods for parallel hardware implementations use of formal methods in automated software engineering and testing correct by design design for verification and property based design techniques techniques and algorithms for scaling formal methods e g abstraction and symbolic methods compositional techniques parallel and distributed techniques and application of formal methods to emerging technologies [Encyclopedia of Information Science and Technology, Third Edition](#) Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

[How to Prove It](#) Daniel J. Velleman, 2019-07-18 Helps students transition from problem solving to proving theorems with a new chapter on number theory and over 150 new exercises [Bulletin of the American Mathematical Society](#), 1902 *Bulletin (new Series) of the American Mathematical Society*, 1898 **Types for Proofs and Programs**, 2000 **The Mathematical Gazette**, 1909 **100% Mathematical Proof** Rowan Garnier, John Taylor, 1996-08 Proof has been and remains one of the concepts which characterises mathematics Covering basic propositional and predicate logic as well as discussing axiom systems and formal proofs the book seeks to explain what mathematicians understand by proofs and how they are communicated The authors explore the principle techniques of direct and indirect proof including induction existence and uniqueness proofs proof by contradiction constructive and non constructive proofs etc Many examples from analysis and modern algebra are included The exceptionally clear style and presentation ensures that the book will be useful and enjoyable to those studying and interested in the notion of mathematical proof

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