A LOGICAL APPROACH TO DISCRETE MATH

David Gries
Fred B. Schneider

Theorem:
$(\forall x \mid: P \Rightarrow Q) \;=\; \{x \mid P\} \subseteq \{x \mid Q\}$

Proof:
$\{x \mid P\} \subseteq \{x \mid Q\}$
$=$ ⟨Def. of Subset $\subseteq$, with v not
occurring free in P or Q⟩
$(\forall v \mid v \in \{x \mid P\} : v \in \{x \mid Q\})$
$=$ ⟨$v \in \{x \mid R\} \;=\; R[x := v]$, twice⟩
$(\forall v \mid P[x := v] : Q[x := v])$
$=$ ⟨Trading: Dummy renaming⟩
$(\forall x \mid: P[x := v][v := x] \Rightarrow$
$Q[x := v][v := x])$
$=$ ⟨$R[x := v][v := x] \;=\; R$ if v
does not occur free in R, twice⟩
$(\forall x \mid: P \Rightarrow Q)$

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A Logical Approach To Discrete Math Monographs In Computer Science

Burkhard Wolff,Marie-Claude Gaudel,Abderrahmane Feliachi

A Logical Approach To Discrete Math Monographs In Computer Science:

    A Logical Approach to Discrete Math David Gries,Fred B. Schneider,1993-10-22 Here the authors strive to change the way logic and discrete math are taught in computer science and mathematics while many books treat logic simply as another topic of study this one is unique in its willingness to go one step further The book traets logic as a basic tool which may be applied in essentially every other area   **A Logical Approach to Discrete Math** David Gries,Fred B. Schneider,2013-03-14 This text attempts to change the way we teach logic to beginning students Instead of teaching logic as a subject in isolation we regard it as a basic tool and show how to use it We strive to give students a skill in the propo sitional and predicate calculi and then to exercise that skill thoroughly in applications that arise in computer science and discrete mathematics We are not logicians but programming methodologists and this text reflects that perspective We are among the first generation of scientists who are more interested in using logic than in studying it With this text we hope to empower further generations of computer scientists and math ematicians to become serious users of logic Logic is the glue Logic is the glue that binds together methods of reasoning in all domains The traditional proof methods for example proof by assumption con tradiction mutual implication and induction have their basis in formal logic Thus whether proofs are to be presented formally or informally a study of logic can provide understanding   **A Logical Approach to Discrete Math** David Gries,Fred B. Schneider,2014-01-15   *Relational and Algebraic Methods in Computer Science* Jules Desharnais,Walter Guttmann,Stef Joosten,2018-10-22 This book constitutes the proceedings of the 17th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2018 held in Groningen The Netherlands in October November 2018 The 21 full papers and 1 invited paper presented together with 2 invited abstracts and 1 abstract of a tutorial were carefully selected from 31 submissions The papers are organized in the following topics Theoretical foundations reasoning about computations and programs and applications and tools   **Number Theory for Computing** Song Y. Yan,2013-11-11 Modern cryptography depends heavily on number theory with primality test ing factoring discrete logarithms indices and elliptic curves being perhaps the most prominent subject areas Since my own graduate study had empha sized probability theory statistics and real analysis when I started work ing in cryptography around 1970 I found myself swimming in an unknown murky sea I thus know from personal experience how inaccessible number theory can be to the uninitiated Thank you for your efforts to case the transition for a new generation of cryptographers Thank you also for helping Ralph Merkle receive the credit he deserves Diffie Rivest Shamir Adleman and I had the good luck to get expedited review of our papers so that they appeared before Merkle s seminal contribu tion Your noting his early submission date and referring to what has come to be called Diffie Hellman key exchange as it should Diffie Hellman Merkle key exchange is greatly appreciated It has been gratifying to see how cryptography and number theory have helped each other over the last twenty five years Jumber theory has been the source of numerous clever ideas for implementing cryptographic systems and protocols while

cryptography has been helpful in getting funding for this area which has sometimes been called the queen of mathematics because of its seeming lack of real world applications Little did they know Stanford 30 July 2001 Martin E Hellman Preface to the Second Edition Number theory is an experimental science   Relations and Kleene Algebra in Computer Science Rudolf Berghammer,Bernhard Möller,Georg Struth,2008-04-12 Constituting the refereed proceedings of the 10th International Conference on Relational Methods in Computer Science RelMiCS 2008 and the 5th International Conference on Applications of Kleene Algebras these papers were selected from numerous submissions   *Set Theory for Computing* Domenico Cantone,Eugenio Omodeo,Alberto Policriti,2001-06-26 Set Theory for Computing offers an up to date and comprehensive account of set oriented symbolic manipulation and automated reasoning methods Mastering today s variety of systems with crisp formal tools is a prerequisite for a high degree of control over sets and aggregates The many algorithmic methods and deductive techniques in this book offer readers a clear view of the use of set theoretic notions in such critical areas as specification of problems data types and solution methods algorithmic program verification and automated deduction The rigorous and largely self contained style of presentation addresses readers wanting to complement their set intuition with the ability to exploit it in specification and verification and master it by symbolic logically based techniques and methods This book will be of interest to graduates and researchers in theoretical computer science and computational logic and automated reasoning   Software Specification Methods Henri Habrias,Marc Frappier,2013-03-01 This title provides a clear overview of the main methods and has a practical focus that allows the reader to apply their knowledge to real life situations The following are just some of the techniques covered UML Z TLA SAZ B OMT VHDL Estelle SDL and LOTOS   Interactive Theorem Proving Jeremy Avigad,Assia Mahboubi,2018-07-03 This book constitutes the refereed proceedings of the 9th International Conference on Interactive Theorem Proving ITP 2018 held in Oxford UK in July 2018 The 32 full papers and 5 short papers presented were carefully reviewed and selected from 65 submissions The papers feature research in the area of logical frameworks and interactive proof assistants The topics include theoretical foundations and implementation aspects of the technology as well as applications to verifying hardware and software systems to ensure their safety and security and applications to the formal verication of mathematical results Chapters 2 10 26 29 30 and 37 are available open access under a Creative Commons Attribution 4 0 International License via link springer com   Unifying Theories of Programming Shengchao Qin,2010-11-08 Based on the pioneering work of C A R   Algebraic Methodology and Software Technology Michael Johnson,1997-12 This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Methodology and Software Engineering AMAST 97 held in Sydney Australia in December 1997 The volume presents 48 revised full papers selected from an unusually high number of submissions One of the outstanding features of AMAST is its mix of serious mathematical development of formal methods in software engineering with practical concerns tools case studies and industrial development The volume addresses all current aspects of formal methods in software engineering and

programming methodology with a certain emphasis on algebraic and logical foundations   Computer Algebra in Scientific Computing Vladimir P. Gerdt,Wolfram Koepf,Ernst W. Mayr,Evgenii V. Vorozhtsov,2011-08-26 This book constitutes the refereed proceedings of the 13th International Workshop on Computer Algebra in Scientific Computing CASC 2011 held in Kassel Germany in September 2011 The 26 full papers included in the book were carefully reviewed and selected from numerous submissions The articles are organized in topical sections on the development of object oriented computer algebra software for the modeling of algebraic structures as typed objects matrix algorithms the investigation with the aid of computer algebra the development of symbolic numerical algorithms and the application of symbolic computations in applied problems of physics mechanics social science and engineering   Effective Theories in Programming Practice Jayadev Misra,2022-12-27 Set theory logic discrete mathematics and fundamental algorithms along with their correctness and complexity analysis will always remain useful for computing professionals and need to be understood by students who want to succeed This textbook explains a number of those fundamental algorithms to programming students in a concise yet precise manner The book includes the background material needed to understand the explanations and to develop such explanations for other algorithms The author demonstrates that clarity and simplicity are achieved not by avoiding formalism but by using it properly The book is self contained assuming only a background in high school mathematics and elementary program writing skills It does not assume familiarity with any specific programming language Starting with basic concepts of sets functions relations logic and proof techniques including induction the necessary mathematical framework for reasoning about the correctness termination and efficiency of programs is introduced with examples at each stage The book contains the systematic development from appropriate theories of a variety of fundamental algorithms related to search sorting matching graph related problems recursive programming methodology and dynamic programming techniques culminating in parallel recursive structures   *Formal Methods Teaching* Brijesh Dongol,Luigia Petre,Graeme Smith,2019-09-23 This book constitutes the refereed proceedings of the Third International Workshop and Tutorial FMTea 2019 Held as Part of the Third World Congress on Formal Methods FM 2019 Porto Portugal October 2019 The 14 full papers presented together with 3 abstract papers were carefully reviewed and selected from 22 submissions The papers are organized in topical sections named Tutorial lectures Teaching Program Verification Teaching Program Development and Effective Teaching Techniques

Unifying Theories of Programming Burkhard Wolff,Marie-Claude Gaudel,Abderrahmane Feliachi,2013-01-03 This book constitutes the refereed proceedings of the 4th International Symposium on Unifying Theories of Programming UTP 2012 held in Paris France in August 2012 co located with the 18th International Symposium on Formal Methods FM 2012 The 8 revised full papers presented together with 2 invited talks and one invited lecture were carefully reviewed and selected from 13 submissions   **Automated Deduction in Classical and Non-Classical Logics** Ricardo Caferra,Gernot Salzer,2003-07-31 This volume presents a collection of thoroughly reviewed revised full papers on automated deduction in

classical modal and many valued logics with an emphasis on first order theories Five invited papers by prominent researchers give a consolidated view of the recent developments in first order theorem proving The 14 research papers presented went through a twofold selection process and were first presented at the International Workshop on First Order Theorem Proving FTP 98 held in Vienna Austria in November 1998 The contributed papers reflect the current status in research in the area most of the results presented rely on resolution or tableaux methods with a few exceptions choosing the equational paradigm **Formal Methods for Components and Objects** Frank S.de Boer,2003-10-09 This book presents revised tutorial lectures given by invited speakers at the First International Symposium on Formal Methods for Components and Objects FMCO 2002 held in Leiden The Netherlands in November 2002 The 21 revised lectures by leading researchers present a comprehensive account of the potential of formal methods applied to complex software systems such as components and object systems The book makes a unique contribution to bridging the gap between theory and practice in software engineering <u>Introduction to Functional Programming Using Haskell</u> Richard Bird,1998 After the success of the first edition Introduction to Functional Programming using Haskell has been thoroughly updated and revised to provide a complete grounding in the principles and techniques of programming with functions The second edition uses the popular language Haskell to express functional programs There are new chapters on program optimisation abstract datatypes in a functional setting and programming in a monadic style There are complete new case studies and many new exercises As in the first edition there is an emphasis on the fundamental techniques for reasoning about functional programs and for deriving them systematically from their specifications The book is self contained assuming no prior knowledge of programming and is suitable as an introductory undergraduate text for first or second year students *Data Refinement* W.-P. de Roever,Kai Engelhardt,1998-12-03 The goal of this book is to provide a comprehensive and systematic introduction to the important and highly applicable method of data refinement and the simulation methods used for proving its correctness The authors concentrate in the first part on the general principles needed to prove data refinement correct They begin with an explanation of the fundamental notions showing that data refinement proofs reduce to proving simulation The book s second part contains a detailed survey of important methods in this field which are carefully analysed and shown to be either incomplete with counterexamples to their application or to be always applicable whenever data refinement holds This is shown by proving for the first time that all these methods can be described and analysed in terms of two simple notions forward and backward simulation The book is self contained going from advanced undergraduate level and taking the reader to the state of the art in methods for proving simulation **Design Methods and Applications for Distributed Embedded Systems** Bernd Kleinjohann,Guang R. Gao,Hermann Kopetz,Lisa Kleinjohann,Achim Rettberg,2006-04-11 The IFIP TC 10 Working Conference on Distributed and Parallel Embedded Systems DIPES 2004 brings together experts from industry and academia to discuss recent developments in this important and growing field in the splendid city of Toulouse

France The ever decreasing price performance ratio of microcontrollers makes it economically attractive to replace more and more conventional mechanical or electronic control systems within many products by embedded real time computer systems An embedded real time computer system is always part of a well specified larger system which we call an intelligent product Although most intelligent products start out as stand alone units many of them are required to interact with other systems at a later stage At present many industries are in the middle of this transition from stand alone products to networked embedded systems This transition requires reflection and architecting The complexity of the evolving distributed artifact can only be controlled if careful planning and principled design methods replace the hoc engineering of the first version of many standalone embedded products

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