

A LOGICAL APPROACH TO DISCRETE MATH

David Gries
Fred B. Schneider

Theorem:

$$\{\forall x\} : P \Rightarrow Q \equiv \{x \mid P\} \subset \{x \mid Q\}$$

Proof:

$$\begin{aligned} & \{x \mid P\} \subset \{x \mid Q\} \\ \equiv & \text{(Def. of Subset } \subset \text{, with } v \text{ not} \\ & \text{occurring free in } P \text{ or } Q) \\ & \{\forall v \mid v \in \{x \mid P\} \Rightarrow v \in \{x \mid Q\}\} \\ \equiv & \{v \mid \{x \mid R\} \equiv R[x := v], \text{ twice}\} \\ & \{\forall v \mid P[x := v] \Rightarrow Q[x := v]\} \\ \equiv & \text{(Trading, Dummy renaming)} \\ & \{\forall x \mid P[x := v] \mid v = x\} \Rightarrow \\ & \quad Q[x := v] \mid v = x \\ \equiv & \{R[x := v] \mid v = x\} \equiv R \text{ if } v \\ & \text{does not occur free in } R, \text{ twice} \\ & \{\forall x\} : P \Rightarrow Q \end{aligned}$$



Logical Approach To Discrete Math Solutions Manual

Jean-Pierre Jouannaud, Zhong Shao



Logical Approach To Discrete Math Solutions Manual:

Certified Programs and Proofs Jean-Pierre Jouannaud,Zhong Shao,2011-11-18 This book constitutes the referred proceedings of the First International Conference on Certified Programs and Proofs CPP 2011 held in Kenting Taiwan in December 2011 The 24 revised regular papers presented together with 4 invited talks were carefully reviewed and selected from 49 submissions They are organized in topical sections on logic and types certificates formalization proof assistants teaching programming languages hardware certification miscellaneous and proof perls

Student Solutions Manual to Accompany Linear Algebra with Applications Gareth Williams,2010-03-18 *The Discrete Math Workbook* Sergei Kurgalin,Sergei Borzunov,2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including Turing machines asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language

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

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