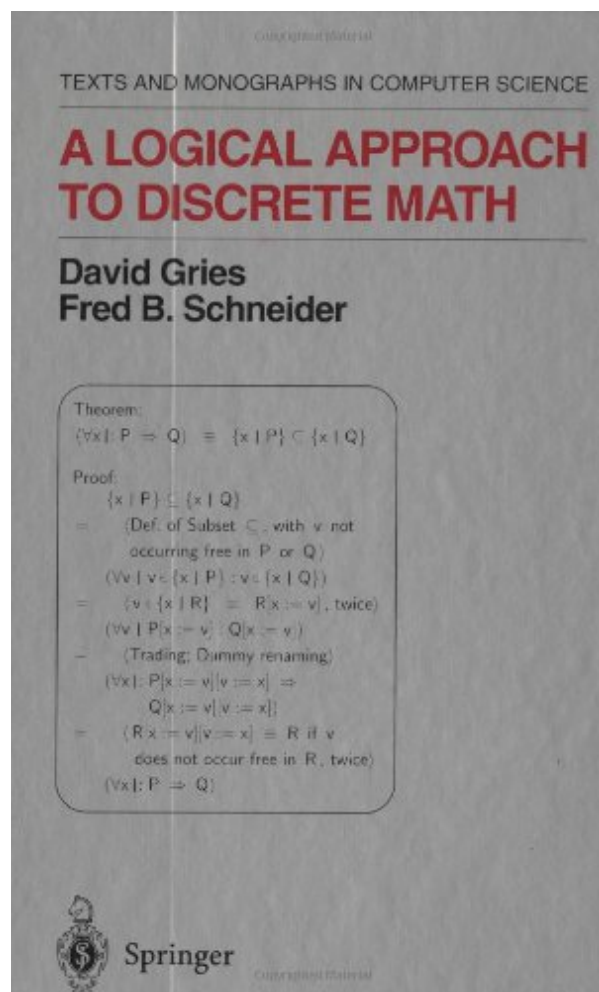


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A LOGICAL APPROACH TO DISCRETE MATH

David Gries
Fred B. Schneider

Theorem:

$$(\forall x): P \Rightarrow Q \equiv \{x \mid P\} \subseteq \{x \mid Q\}$$

Proof:

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



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Review

"This is a rather extraordinary book, and deserves to be read by everyone involved in computer science and - perhaps more importantly - software engineering. I recommend it highly... If the book is taken seriously, the rigor that it unfolds and the clarity of its concepts could have a significant impact on the way in which software is conceived and developed." - Peter G. Neumann

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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 treats logic as a basic tool which may be applied in essentially every other area.

- Sales Rank: #132061 in Books
- Published on: 1993-10-22
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.19" w x 6.14" l, 2.04 pounds
- Binding: Hardcover
- 516 pages

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15 of 16 people found the following review helpful.

That's the point.

By reader

The previous reviewer knows not of what they speak. Yes, the book does teach calculation independent of meaning (equational logic), and this is so that one may arrive at results, at insights, at meaning, which one would not have otherwise, or at least not with such great ease. To wit, solving Portia's suitor's dilemma is reduced to a trivial two step manipulation, rather than, for example a 21-step formal natural-deduction solution. I cannot overemphasize the astounding increase in problem solving power available to you when you can manipulate a problem without having to keep the meaning of everything in your head.... I searched for quite some time before finally finding this book, and I will be forever happy that I've been able to read it. Can't say that about too many math books. :-) Contains excellent reference summaries too, including card stock tear out duplicates of same.

12 of 14 people found the following review helpful.

Not for independent study, questionable otherwise

By Karl Becker

For the right kind of reader - namely, one with a competent instructor - this book probably does a lot of things well. It starts off by requiring you to get a firm grip on concepts that are used throughout the

remainder of the book; you'll be doing proofs right off the bat. Unfortunately, I couldn't understand the content of the first four chapters until after a month of study.

I was genuinely applying myself, but I just had a difficult time understanding this material. You may struggle unless you've previously had an introduction to proofs of this kind, like in an Abstract Math course. The proofs from high school Geometry class are nothing like those seen here!

I can only recommend this book if a really good instructor comes with it. If you know you'll have a good professor who can explain things well, I think this book can take you into some tougher, more complex tasks relatively quickly. If not, you're going to have a devil of a time penetrating this thing: the author's words seem to trip over themselves all the time. It's somewhat of a difficult read, at least at the beginning; once I got my bearings, the later chapters seemed to get a little easier.

If only these concepts could be taught better... but I can't see a better method than what's done here, and that method is initially horribly difficult.

I do not recommend this book for independent study, but it may work when paired with a knowledgeable, helpful instructor. The fact that there are no answers in the back of the book limit the book's use.

13 of 16 people found the following review helpful.

A unique and very effective approach

By A Customer

This is a fantastic text on discrete math. I have looked at many different texts dealing with this subject and this is without question the best one I have come across. There are tons of examples and exercises. This book clearly has the student in mind and progresses slowly and clearly. A tremendous effort and truly a great success.

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