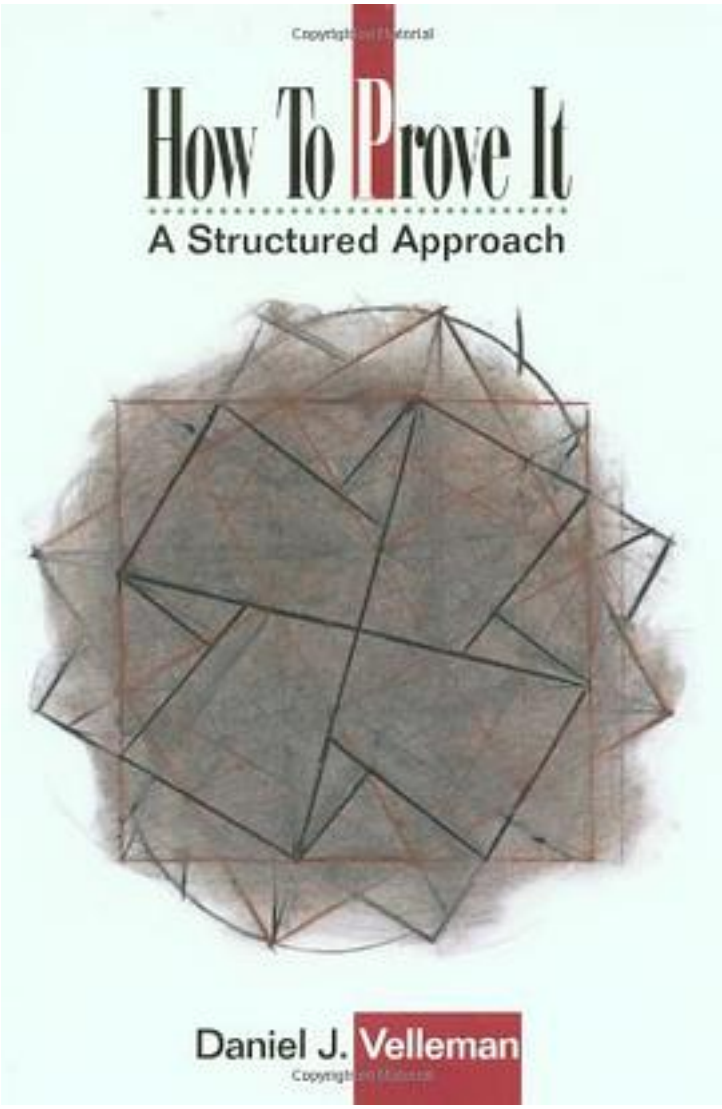
How to Prove It



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Many students have trouble the first time they take a mathematics course in which proofs play a significant role. This new edition of Velleman's successful text will prepare students to make the transition from solving problems to proving theorems by teaching them the techniques needed to read and write proofs. The book begins with the basic concepts of logic and set theory, to familiarize students with the language of mathematics and how it is interpreted. These concepts are used as the basis for a step-by-step breakdown of the most important techniques used in constructing proofs. The author shows how complex proofs are built up from these smaller steps, using detailed 'scratch work' sections to expose the machinery of proofs about the natural numbers, relations, functions, and infinite sets. To give students the opportunity to construct their own proofs, this new edition contains over 200 new exercises, selected solutions, and an introduction to Proof Designer software. No background beyond standard high school mathematics is assumed. This book will be useful to anyone interested in logic and proofs: computer scientists, philosophers, linguists, and of course mathematicians.

作者介绍:

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标签

数学

思维

Mathematics

数理逻辑

数学证明

逻辑学

方法论

证明论

评论

Don't let others' comments fool you. This is a must read for advanced high school kids.

学过Rosen的离散数学这本书就没必要了

可能是由于高中及之前数学学习方式残留的习惯，感觉这本书对解数学证明题帮助并没那么大，尽管作者写得不厌其烦甚至有些啰嗦。就培养所谓mathematical maturity, only God knows...权当作补逻辑和素朴集合论基础的教材使了（感谢老师放慢进度救我狗命）。但可能对于中学生来说还是挺有价值的。

Really helpful

还在豆瓣时读了一半的书，最近终于捡起来读完。最后一章关于 infinity 的一些定理证明还是看不太懂，过段时间再读一遍好了。书后面有答案，不过我答的题不是很多，毕竟每道题都写的话，早晨一下子就用光了，唉 ……

坑爹的杀手。。。

数理逻辑入门

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书评

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