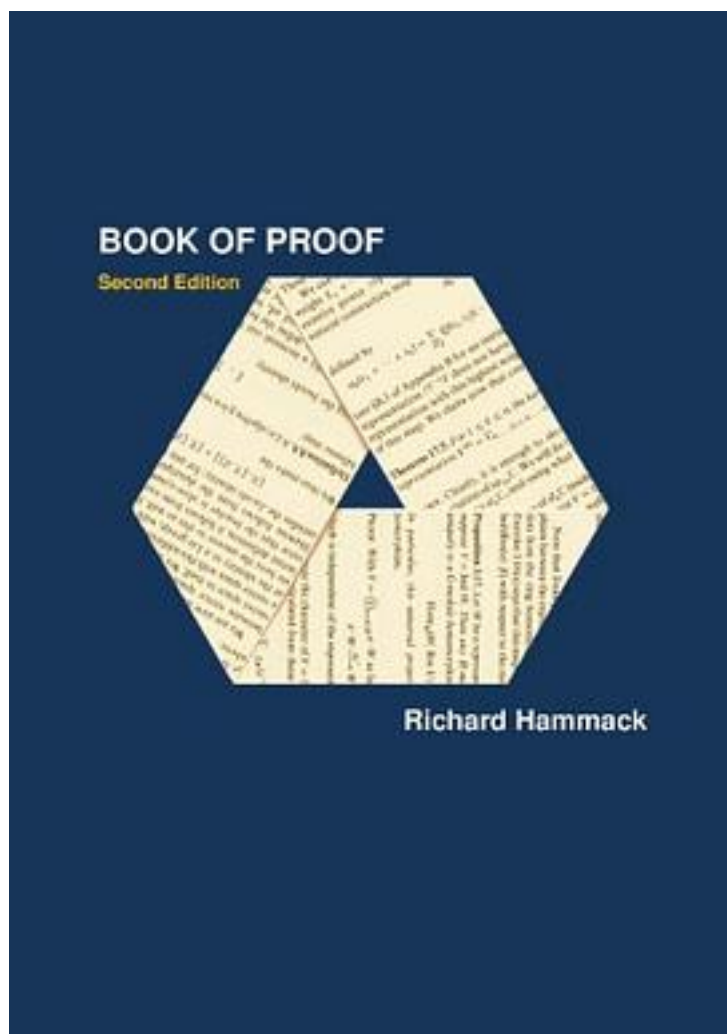


Book of Proof



[Book of Proof_ 下载链接1](#)

著者:Richard Hammack

出版者:Richard Hammack

出版时间:2013-5-31

装帧:Paperback

isbn:9780989472104

This book is an introduction to the language and standard proof methods of

mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity. Topics include sets, logic, counting, methods of conditional and non-conditional proof, disproof, induction, relations, functions and infinite cardinality.

作者介绍:

Richard Hammack is an associate professor of mathematics at Virginia Commonwealth University in Richmond. A native of rural southern Virginia, he studied painting at Rhode Island School of Design before an interest in computer graphics and visualization led him to mathematics. He works mostly in the areas of combinatorics and graph theory.

Home page: www.people.vcu.edu/~rhammack/

目录: Preface

Introduction

Part I: Fundamentals

1. Sets

2. Logic

3. Counting

Part II: How to Prove Conditional Statements

4. Direct Proof

5. Contrapositive Proof

6. Proof by Contradiction

Part III: More on Proof

7. Proving Non-Conditional Statements

8. Proofs Involving Sets

9. Disproof

10. Mathematical Induction

Part IV: Relations, Functions and Cardinality

11. Relations

12. Functions

13. Cardinality

Solutions

Index

• • • • • ([收起](#))

[Book of Proof_ 下载链接1](#)

标签

数学

逻辑

数学证明

Math

形式语言学

Career

评论

这本书可以在作者网站上免费下载，链接是：
<http://www.people.vcu.edu/~rhammack/BookOfProof/>

很好理解，非常好入门。

讲的挺好，内容naive

写得挺好的一本书，内容很简单，但是很规范化，高中或大一基础就可以读了。

[Book of Proof_ 下载链接1](#)

书评

英语有些术语和中文不统一，有时会让人一头雾水。例如对数学的分类，国外大致是以

纯数学和应用数学作为分界线。而国内流行的“高等数学”在国外则分别称为“微积分”，“高等代数”则大致上等于线性代数+多项式。有趣的是，英语中也有所谓“higher math”，中文没有相应名称，...

[Book of Proof_下载链接1](#)