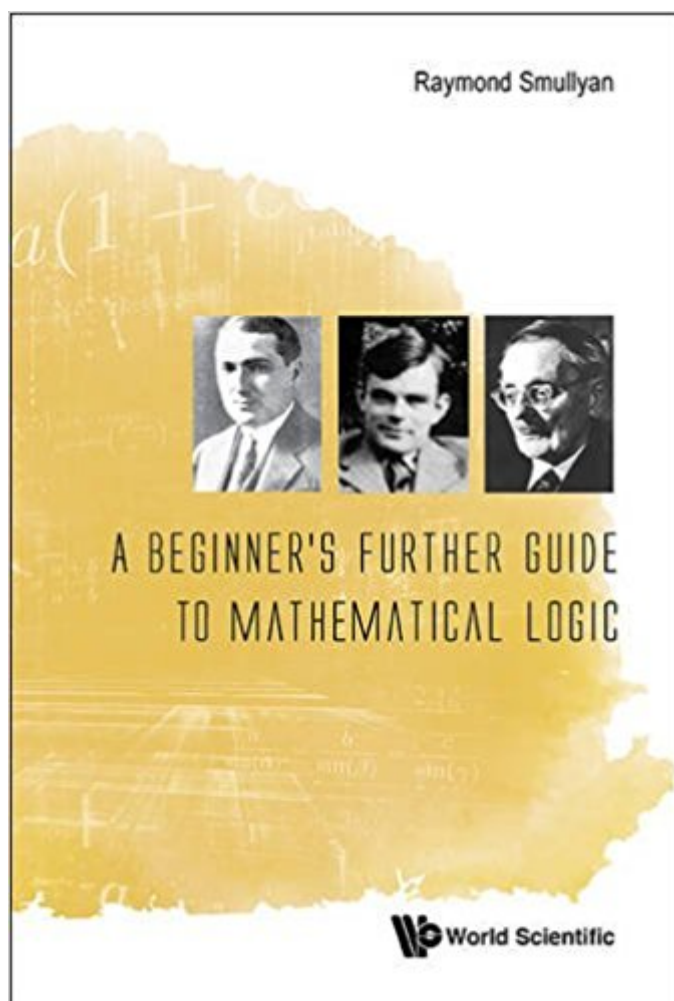


The book was found

# A Beginner's Further Guide To Mathematical Logic



## Synopsis

This book is a sequel to my *Beginner's Guide to Mathematical Logic*. The previous volume deals with elements of propositional and first-order logic, contains a bit on formal systems and recursion, and concludes with chapters on Gödel's famous incompleteness theorem, along with related results. The present volume begins with a bit more on propositional and first-order logic, followed by what I would call a "fein" chapter, which simultaneously generalizes some results from recursion theory, first-order arithmetic systems, and what I dub a "decision machine." Then come five chapters on formal systems, recursion theory and metamathematical applications in a general setting. The concluding five chapters are on the beautiful subject of combinatory logic, which is not only intriguing in its own right, but has important applications to computer science. Argonne National Laboratory is especially involved in these applications, and I am proud to say that its members have found use for some of my results in combinatory logic. This book does not cover such important subjects as set theory, model theory, proof theory, and modern developments in recursion theory, but the reader, after studying this volume, will be amply prepared for the study of these more advanced topics.

## Book Information

Paperback: 350 pages

Publisher: World Scientific Publishing Company; 1 edition (March 29, 2016)

Language: English

ISBN-10: 9814725722

ISBN-13: 978-9814725729

Product Dimensions: 5.9 x 0.6 x 9 inches

Shipping Weight: 14.4 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #489,722 in Books (See Top 100 in Books) #52 in [Books > Science & Math > Mathematics > Pure Mathematics > Set Theory](#) #94 in [Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics](#) #222 in [Books > Science & Math > Mathematics > Pure Mathematics > Logic](#)

[Download to continue reading...](#)

A Beginner's Further Guide to Mathematical Logic A Beginner's Guide to Mathematical Logic (Dover Books on Mathematics) French-English/English-French Beginner's Dictionary: A Beginner's Guide in Words and Pictures (Barron's Beginner's Bilingual Dictionaries) Love and Logic Magic: When

Kids Drain Your Energy (Parenting with Love and Logic) Symbolic Logic and the Game of Logic  
Gre-Lsat Logic Workbook (Gre-Lsat Logic Workbook, 2nd ed) Logic: Propositional Logic  
(Quickstudy: Academic) Introduction to Logic Circuits & Logic Design with VHDL Introduction to  
Logic Circuits & Logic Design with Verilog Modern Logic: A Text in Elementary Symbolic Logic  
Three Philosophical Works: Theoretical Knowledge & Inductive Inference, Popular Lectures on  
Logic, and Logic, Philosophy & Psychoanalysis Socratic Logic: A Logic Text using Socratic Method,  
Platonic Questions, and Aristotelian Principles, Edition 3.1 Introduction to Logic: Propositional Logic,  
Revised Edition (3rd Edition) Critical Thinking: Decision Making with Smarter Intuition and Logic!  
(Critical Thinking, Decision Making, Logic, Intuition) Boolean Algebra as the Basis of Mathematical  
Logic My Best Mathematical and Logic Puzzles (Dover Recreational Math) A Mathematical  
Introduction to Logic, Second Edition Mathematical Logic for Computer Science Mathematical Logic:  
Questions and Answers An Introduction to Mathematical Logic (Dover Books on Mathematics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)