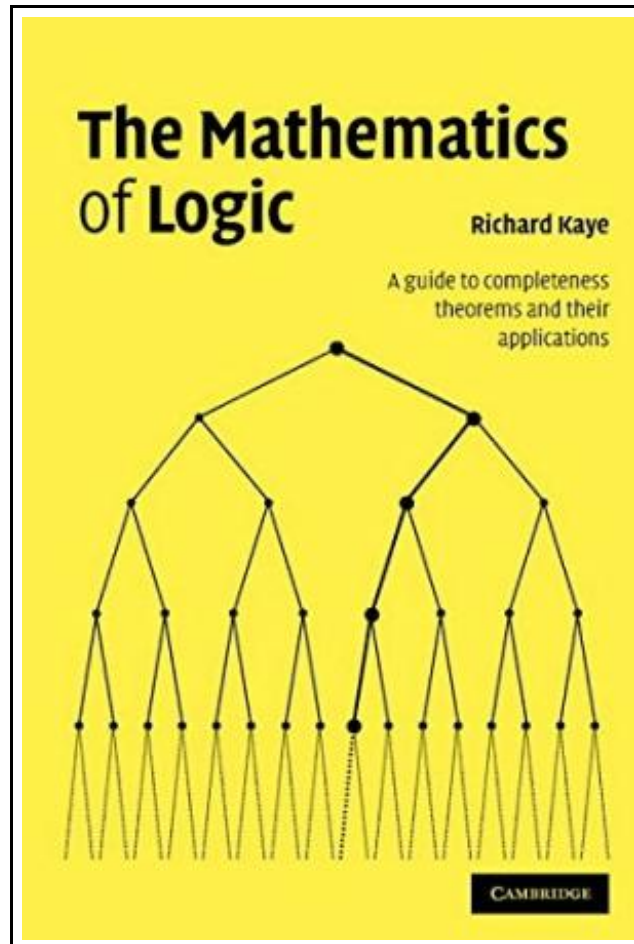# The Mathematics of Logic: A Guide to Completeness Theorems and Their Applications

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Reviews

Very good e-book and helpful one. It is among the most awesome publication we have read. Its been developed in an remarkably simple way in fact it is simply right after i finished reading this book through which basically transformed me, affect the way i really believe.
(Prof. Kacey O'Hara)

THE MATHEMATICS OF LOGIC: A GUIDE TO COMPLETENESS THEOREMS AND THEIR APPLICATIONS

Cambridge University Press, New Delhi, India, 2007. Paperback. Book Condition: New. First Edition. This undergraduate textbook covers the key material for a typical first course in logic, in particular presenting a full mathematical account of the most important result in logic, the Completeness Theorem for first-order logic. Looking at a series of interesting systems, increasing in complexity, then proving and discussing the Completeness Theorem for each, the author ensures that the number of new concepts to be absorbed at each stage is manageable, whilst providing lively mathematical applications throughout. Unfamiliar terminology is kept to a minimum, no background in formal set-theory is required, and the book contains proofs of all the required set theoretical results. The reader is taken on a journey starting with König's Lemma, and progressing via order relations, Zorn's Lemma, Boolean algebras, and propositional logic, to completeness and compactness of first-order logic. As applications of the work on first-order logic, two final chapters provide introductions to model theory and nonstandard analysis. Lively mathematical examples and some unusual formal systems stimulate the reader from the very beginning Suitable as an introduction to logic for students without any background in formal set theory Supported by companion web-pages containing further material and exercises Contents Preface; How to read this book; 1. Königs lemma; 2. Posets and maximal elements; 3. Formal systems; 4. Deductions in posets; 5. Boolean algebras; 6. Propositional logic; 7. Valuations; 8. Filters and ideals; 9. First-order logic; 10. Completeness and compactness; 11. Model theory; 12. Nonstandard analysis; Bibliography; Index. Printed Pages: 216 with 4 line diagrams, 141 exercises, and 50 worked examples. Size: 150 x 230 Mm.

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