

Introduction to Mathematical Logic. Elliot Mendelsohn. Springer Science & Business Media, 2012. 342 pages. 2012. 9781461572886

Introduction to. Mathematical logic sixth edition. TEXTBOOKS in MATHEMATICS Series Editors: Al Boggess and Ken Rosen PUBLISHED TITLES. Introduction to. Mathematical logic sixth edition. Elliott Mendelson Queens College Flushing, New York, USA. CRC Press Taylor & Francis Group 6000 Broken Sound Parkway NW, Suite 300 Boca Raton, FL 33487-2742 © 2015 by Taylor & Francis Group, LLC CRC Press is an imprint of Taylor & Francis Group, an Informa business No claim to original U.S. Government works Version Date: 20150205 International Standard Book Number-13: 978-1-4822-3778-8 (eBook - PDF) This book contains information. This book covers the central topics of first-order mathematical logic in a way that can reasonably be completed in a single semester. From the core ideas of languages, structures, and deductions we move on to prove the Soundness and Completeness Theorems, the Compactness Theorem, and Gödel's First and Second Incompleteness Theorems. There is an introduction to some topics in model theory along the way, but I have tried to keep the text tightly focused. But the focus of the book has not changed: Lars and I believe that we have outlined an introduction to important areas of mathematical logic, culminating in the Incompleteness Theorems, that can reasonably be covered in a one-semester upper division undergraduate course. We hope that you agree! Mathematical Logic, an Introduction. by Peter Koepke Bonn, Summer 2018. Wann sollte die Mathematik je zu einem Anfang gelangen, wenn sie warten wollte, bis. It is remarkable that mathematics is also able to model itself : mathematical logic defines exactly what mathematical statements and rigorous arguments are. The mathematical enquiry into the mathematical method leads to deep insights into mathematics, applications to classical field of mathematics, and to new mathematical theories. The study of mathematical language has also influenced the theory of formal and natural languages in computer science, linguistics and philosophy. (Pure) mathematics is a formal science.