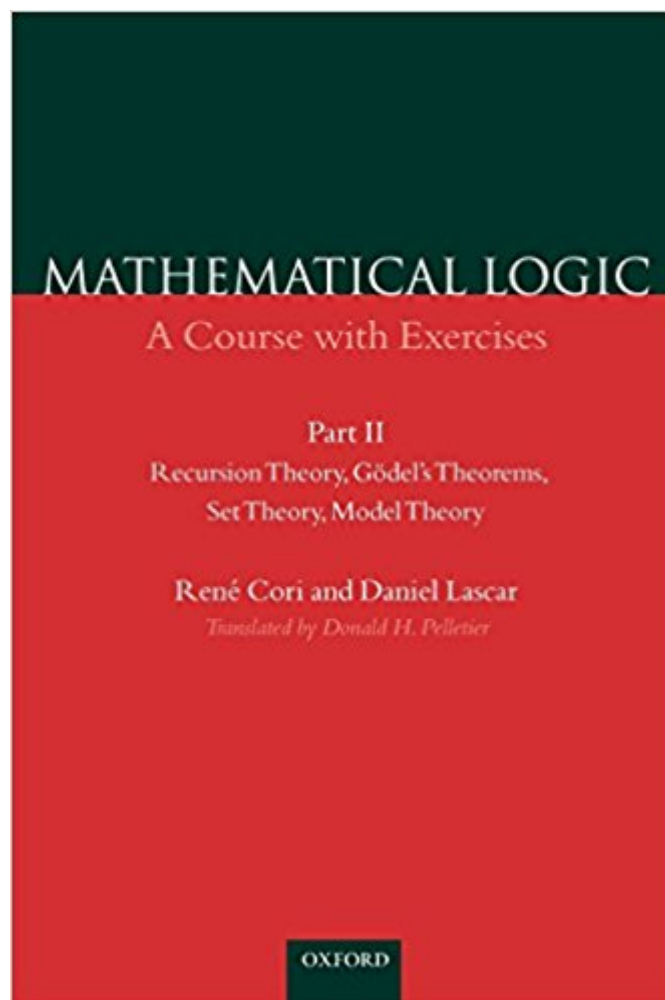# Recursion Theory, Godel's Theorems, Set Theory, Model Theory (Mathematical Logic: A Course With Exercises, Part II)

Synopsis

Logic forms the basis of mathematics, and is hence a fundamental part of any mathematics course. It is a major element in theoretical computer science and has undergone a huge revival with the every- growing importance of computer science. This text is based on a course to undergraduates and provides a clear and accessible introduction to mathematical logic. The concept of model provides the underlying theme, giving the text a theoretical coherence whilst still covering a wide area of logic. The foundations having been laid in "Part I", this book starts with recursion theory, a topic essential for the complete scientist. Then follows Godel's incompleteness theorems and axiomatic set theory. Chapter 8 provides an introduction to model theory. There are examples throughout each section, and varied selection of exercises at the end. Answers to the exercises are given in the appendix.

Book Information

Customer Reviews

"An undergraduate course text for students who have acquired the practice and knowledge of classical mathematics as taught in high school and the first year of college, but no specialized knowledge. Introducing the logic underlying mathematics and theoretical computer science, Cori and Lascar (both U. Paris VII) use the concept of model as their underlying theme. Pelletier (York U. Toronto) has clarified some of the terminology in English for beginning students."--SciTech Book News"I have always been especially fond of logic. The two-volume Mathematical Logic: A Course with Exercises is a comprehensive introductory course that is distinguished by clarity of exposition

and a large number of exercises with thorough solutions. Each volume is about 330 pages long, 80 of which are solutions!"The Bulletin of Mathematics Books

Rene Cori is at Universite Paris VII. Daniel Lascar is at Universite Paris VII. Donald Pelletier is at York University, Toronto and Universite Paris VII.

Recursion Theory, Godel's Theorems, Set Theory, Model Theory (Mathematical Logic: A Course With Exercises, Part II) Memory Exercises: Memory Exercises Unleashed: Top 12 Memory Exercises To Remember Work And Life In 24 Hours With The Definitive Memory Exercises Guide! (memory exercises, memory, brain training) Mathematical Handbook for Scientists and Engineers: Definitions, Theorems, and Formulas for Reference and Review (Dover Civil and Mechanical Engineering) Moduli Spaces of Stable Sheaves on Schemes: Restriction Theorems, Boundedness and the GIT Construction (Mathematical Society of Japan Memoirs) Godel's Proof Organic Chemistry Molecular Model Set: Molecular Model Set Problems and Theorems in Analysis II: Theory of Functions. Zeros. Polynomials. Determinants. Number Theory. Geometry (Classics in Mathematics) Insider Secrets From A Model Agent: How To Become A Successful Model (Modeling, Modelling, Model Agency) RCadvisor's Model Airplane Design Made Easy: The Simple Guide to Designing R/C Model Aircraft or Build Your Own Radio Control Flying Model Plane TAKING THE FALL - The Complete Series: Part One, Part, Two, Part Three & Part Four Math Geek: From Klein Bottles to Chaos Theory, a Guide to the Nerdiest Math Facts, Theorems, and Equations Music for Three, Vol. 1: SET of 3 Parts Baroque, Classical & Romantic Favorites - (includes Part 1 in C, Part 2 Viola, Part 3 Cello or Bassoon) The Mathematical Theory of Non-uniform Gases: An Account of the Kinetic Theory of Viscosity, Thermal Conduction and Diffusion in Gases (Cambridge Mathematical Library) A Course in Mathematical Modeling (Mathematical Association of America Textbooks) Model of Human Occupation: Theory and Application (Model of Human Occupation: Theory & Application) Journey through Genius: The Great Theorems of Mathematics Comparison Theorems in Riemannian Geometry (Ams Chelsea Publishing) Calculus On Manifolds: A Modern Approach To Classical Theorems Of Advanced Calculus Mathematical Interest Theory (Mathematical Association of America Textbooks) Mathematical Optimization and Economic Theory (Prentice-Hall series in mathematical economics)

Privacy

FAQ & Help