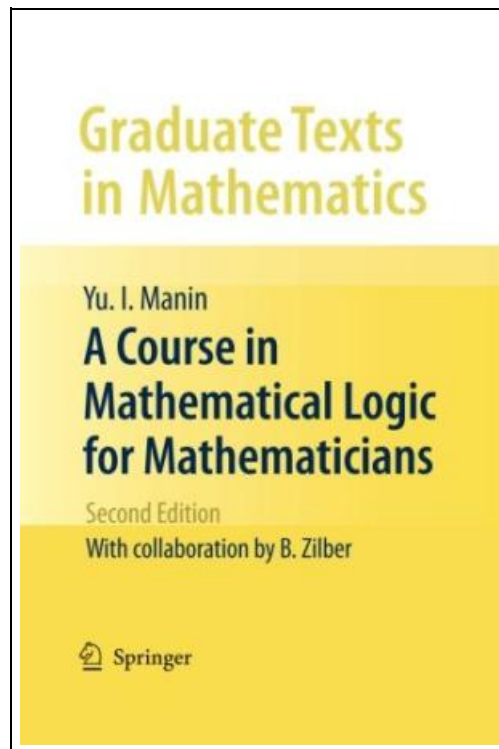# A Course in Mathematical Logic for Mathematicians

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Reviews

A superior quality book and also the font employed was fascinating to learn. I could possibly comprehended almost everything using this created e publication. You wont sense monotony at at any time of your respective time (that's what catalogs are for about should you ask me).

(Lucile Morissette)

A COURSE IN MATHEMATICAL LOGIC FOR MATHEMATICIANS

Springer. Paperback. Condition: New. 384 pages. Dimensions: 9.2in. x 6.1in. x 1.0in.The book starts with an elementary introduction to formal languages appealing to the intuition of working mathematicians and unencumbered by philosophical or normative prejudices such as those of constructivism or intuitionism. It proceeds to the Proof Theory and presents several highlights of Mathematical Logic of 20th century: Gdels and Tarskis Theorems, Cohens Theorem on the independence of Continuum Hypothesis. Unusual for books on logic is a section dedicated to quantum logic. Then the exposition moves to the Computability Theory, based on the notion of recursive functions and stressing numbertheoretic connections. A complete proof of DavisPutnamRobinsonMatiyasevich theorem is given, as well as a proof of Higmans theorem on recursive groups. Kolmogorov complexity is treated. The third Part of the book establishes essential equivalence of proof theory and computation theory and gives applications such as Gdels theorem on the length of proofs. The new Chapter IX, written for the second edition, treats, among other things, categorical approach to the theory of computation, quantum computation, and PNP problem. The new Chapter X, written for the second edition by Boris Zilber, contains basic results of Model Theory and its applications to mainstream mathematics. This theory found deep applications in algebraic and Diophantine geometry. Yuri Ivanovich Manin is Professor Emeritus at Max-Planck-Institute for Mathematics in Bonn, Germany, Board of Trustees Professor at the Northwestern University, Evanston, USA, and Principal Researcher at the Steklov Institute of Mathematics, Moscow, Russia. Boris Zilber, Professor of Mathematics at the University of Oxford, has been added to the second edition. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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