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What is Mathematical Logic?

By John N. Crossley, et al.

Dover Publications Inc., United States, 2010. Paperback. Book Condition: New. New edition. 211 x 137 mm. Language: English . Brand New Book. Although mathematical logic can be a formidably abstruse topic, even for mathematicians, this concise book presents the subject in a lively and approachable fashion. It deals with the very important ideas in modern mathematical logic without the detailed mathematical work required of those with a professional interest in logic. The book begins with a historical survey of the development of mathematical logic from two parallel streams: formal deduction, which originated with Aristotle, Euclid, and others; and mathematical analysis, which dates back to Archimedes in the same era. The streams began to converge in the seventeenth century with the invention of the calculus, which ultimately brought mathematics and logic together. The authors then briefly indicate how such relatively modern concepts as set theory, Godel's incompleteness theorems, the continuum hypothesis, the Lowenheim-Skolem theorem, and other ideas influenced mathematical logic. The ideas are set forth simply and clearly in a pleasant style, and despite the book's relative brevity, there is much covered on these pages. Nonmathematicians can read the book as a general survey; students of the subject will...



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