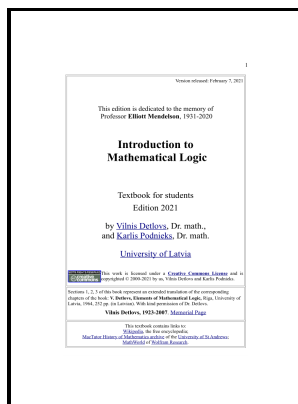


Elements of mathematical logic

Oliver & Boyd - Elements of mathematical logic



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This edition was published in 1964



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This result, known as , establishes severe limitations on axiomatic foundations for mathematics, striking a strong blow to Hilbert's program.

Jan Łukasiewicz, Elements of Mathematical Logic

Soare, Robert Irving 22 December 2011.

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This paper led to the general acceptance of the axiom of choice in the mathematics community.

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Skepticism about the axiom of choice was reinforced by recently discovered paradoxes in. Beginning in 1935, a group of prominent mathematicians collaborated under the pseudonym to publish , a series of encyclopedic mathematics texts. Early results from formal logic established limitations of first-order logic.

The Elements of Mathematical Logic

Gödel showed that the continuum hypothesis cannot be disproven from the axioms of Zermelo—Fraenkel set theory with or without the axiom of choice , by developing the of set theory in which the continuum hypothesis must hold. Two famous statements in set theory are the and the.

Jan Łukasiewicz, Elements of Mathematical Logic

An excellent introduction to mathematical logic, this book provides readers with a sound knowledge of the most important approaches to the subject, stressing the use of logical methods in attacking nontrivial problems. Computer science also contributes to mathematics by developing techniques for the automatic checking or even finding of proofs, such as and.

Jan Łukasiewicz, Elements of Mathematical Logic

In From Kant to Hilbert: A Source Book in the Foundations of Mathematics, 2 vols, Ewald, William B. A question on transfinite numbers. In this logic, quantifiers may only be nested to finite depths, as in first-order logic, but formulas may have finite or countably infinite conjunctions and disjunctions within them.

The Elements of Mathematical Logic

The borderlines amongst these fields, and the lines separating mathematical logic and other fields of mathematics, are not always sharp. Grundlagen der Geometrie in German. Among these is the theorem that a line contains at least two points, or that circles of the same radius whose centers are separated by that radius must intersect.

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