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Type: Monograph

Title: Charles S. Peirce on the Logic of Number

Author: Shields, Paul

Year: 2012

Place: Boston

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Abstract: In 1881 the American philosopher Charles S. Peirce published a remarkable paper in *The American Journal of Mathematics* called "On the Logic of Number." Peirce's paper marked a watershed in nineteenth century mathematics, providing the first successful axiom system for the natural numbers. Awareness that Peirce's axiom system exists has been gradually increasing but the conventional wisdom among mathematicians is still that the first satisfactory axiom systems were those of Dedekind and Peano. The book analyzes Peirce's paper in depth, placing it in the context of contemporary work, and provides a proof of the equivalence of the Peirce and Dedekind axioms for the natural numbers.

Language: English

Keywords: Mathematics