Charles Peirce, Inference and Category Theory

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1. Introduction

Charles Sanders Peirce (1839-1914), mathematic scientist, logician, philosopher, pragmatist, semiotic theorist, and founder of the Metaphysical Club, wrote the first mathematical logic, the first Boolean algebra, and the first Category Theory.

Peirce's work on logic, mathematics, and philosophy was ignored by the mainstream of his time, and his work was rediscovered and developed by Ernst Schröder, Alfred Tarski, and others.

Peirce's work on logic was the first work of any author in Western Civilization to contain the concepts of the modern theory of the quantification of a variable.

Peirce's work on mathematics was the first work in western culture with an emergent conception of infinitesimals, and his work on the continuum was ahead of his time. Peirce's work on the continuum was rediscovered by Stephen Cole Kleene.

Peirce's work on logic was the first work in any culture to contain the concepts of the modern theory of the quantification of a variable. Peirce's work on the continuum was the first work in any culture with an emergent conception of infinitesimals