FRANCINE ABELES, Kean University, NJ
Lewis Carroll's Visual and Formal Logics

Charles L. Dodgson (Lewis Carroll) first published his visual method in *The Game of Logic*, a book published in 1886, extending it ten years later in *Symbolic Logic, Part I*. Originally designed to teach the theory of inference in Aristotelian logic and to improve on the earlier diagrammatic methods of Leonhard Euler (1772) and John Venn (1880), Carroll's method has not been considered seriously as a visual logic system.

In the two parts of *Symbolic Logic*, the second part first published in 1977, Dodgson developed a formal logic in which he set down valid rules for making inferences.

In this paper, I will describe the methods he invented to mechanize reasoning in his formal logic, and demonstrate the superiority of his diagrammatic method over Euler's and Venn's methods.