von Neumann, John

The principles of large-scale computing machines.


From the introduction: “The present paper was one of many seminal works on computing prepared by von Neumann. This specific paper formed the basis for an article that appears in von Neumann’s *Collected works, Vol. V*, on pp. 1–32 [Pergamon, New York, 1963; see [MR0157875](#)]]. Coauthored by H. H. Goldstine and the author, the article in Vol. V is a much expanded version of the present paper.”

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