

Sarkaria, K. S.

The topological work of Henri Poincaré. (English) Zbl 0959.54002

James, I. M. (ed.), History of topology. Amsterdam: Elsevier. 123-167 (1999).

Topology as we know it today, started with *H. Poincaré's* "Analysis Situs" [J. École Polytechn. Paris (2) 1, 1-123 (1895; [JFM 26.0541.07](#)); Oeuvres, Vol. VI, Sceaux: Editions Jacques Gabay 1996, pp. 193-288] and its five 'Compléments' [Rend. Circ. Mat. Palermo 13, 285-343 (1899; [JFM 30.0435.02](#)); Proc. Lond. Math. Soc. 32, 277-308 (1900; [JFM 31.0477.10](#)); Bull. Soc. Math. Fr. 30, 49-70 (1902; [JFM 33.0499.12](#)) and Rend. Circ. Mat. Palermo 18, 45-110 (1904; [JFM 35.0504.13](#))]. This paper contains the contents of these classics and some remarks relating them to further developments. Section 1 of the paper is a summary of 'Analysis Situs'. Section 2 contains notes on this summary. In Section 3, the 'compléments' are summarized and annotated. Necessary changes have been made to tally with modern notations. This is a very useful article for those who want to know the history of topology.

For the entire collection see [[Zbl 0922.54003](#)].

Reviewer: [T.Thrivikraman \(Cochin\)](#)

MSC:

- [54-03](#) History of general topology
- [01A70](#) Biographies, obituaries, personalia, bibliographies
- [55-03](#) History of algebraic topology
- [57-03](#) History of manifolds and cell complexes

Cited in **1** Review
Cited in **3** Documents

Biographic references:

[Poincaré, H.](#)