1. Record Nr. UNINA9910784598303321

Titolo	History of topology [[electronic resource] /] / edited by I.M. James
Pubbl/distr/stampa	Amsterdam ; ; New York, : Elsevier, 1999
ISBN	1-281-02745-6 9786611027452 0-08-053407-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1067 p.)
Altri autori (Persone)	JamesI. M <1928-> (Ioan Mackenzie)
Disciplina	514.09 514/.09 21
Soggetti	Topology - History Geometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; History of Topology; Copyright Page; Preface; Acknowledgement of illustrations; Contents; Chapter 1. The emergence of topological dimension theory; Chapter 2. The concept of manifold, 1850-1950; Chapter 3. Development of the concept of homotopy; Chapter 4. Development of the concept of a complex; Chapter 5. Differential forms; Chapter 6. The topological work of Henri Poincare; Chapter 7. Weyl and the topology of continuous groups; Chapter 8. By their fruits ye shall know them: Some remarks on the interaction of general Topology With Other Areas of Mathematics Chapter 9. Absolute neighborhood retracts and shape theoryChapter 10. Fixed point theory; Chapter 11. Geometric aspects in the development of knot theory; Chapter 12. Topology and physics - a historical essay; Chapter 13. Singularities; Chapter 14. One hundred years of manifold topology; Chapter 15. 3-dimensional topology up to 1960; Chapter 16. A short history of triangulation and related matters; Chapter 17. Graph theory; Chapter 18. The early development of algebraic topology; Chapter 19. From combinatorial topology to algebraic topology Chapter 20. p3(S2), H. Hopf, W.K. Clifford, F. KleinChapter 21. A history of cohomology theory; Chapter 22. Fibre bundles, fibre maps; Chapter

23. A history of spectral sequences: Origins to 1953; Chapter 24. Stable algebraic topology, 1945-1966; Chapter 25. A history of duality in algebraic topology; Chapter 26. A short history of H-spaces; Chapter 27. A history of rational homotopy theory; Chapter 28. History of homological algebra; Chapter 29. Topologists at conferences; Chapter 30. Topologists in Hitler's Germany; Chapter 31. The Japanese school of topology; Chapter 32. Some topologists
Chapter 33. Johann Benedikt ListingChapter 34. Poul Heegaard; Chapter 35. Luitzen Egbertus Jan Brouwer; Chapter 36. Max Dehn; Chapter 37. Jakob Nielsen and his contributions to topology; Chapter 38. Heinz Hopf; Chapter 39. Hans Freudenthal; Chapter 40. Herbert Seifert (1907-1996); Appendix. Some dates; Index

Sommario/riassunto

Topology, for many years, has been one of the most exciting and influential fields of research in modern mathematics. Although its origins may be traced back several hundred years, it was Poincare who ""gave topology wings"" in a classic series of articles published around the turn of the century. While the earlier history, sometimes called the prehistory, is also considered, this volume is mainly concerned with the more recent history of topology, from Poincare onwards. As will be seen from the list of contents the articles cover a wide range of topics. Some are more technical than oth