



The Topology of 4-Manifolds

By Robion C. Kirby

Springer Sep 1991, 1991. Taschenbuch. Book Condition: Neu. 235x155x6 mm. This item is printed on demand - Print on Demand Titel. Neuware - This book presents the classical theorems about simply connected smooth 4-manifolds: intersection forms and homotopy type, oriented and spin bordism, the index theorem, Wall's diffeomorphisms and h-cobordism, and Rohlin's theorem. Most of the proofs are new or are refurbishings of old proofs; all are geometric and make use of handlebody theory. There is a new proof of Rohlin's theorem using spin structures. There is an introduction to Casson handles and Freedman's work including a chapter of unpublished proofs on exotic \mathbb{R}^4 's. The reader needs an understanding of smooth manifolds and characteristic classes in low dimensions. The book should be useful to beginning researchers in 4-manifolds. 112 pp. Englisch.

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