

A quick introduction to stratifolds

Smooth manifolds revisited Stratifolds

Stratifolds with boundary: \mathbb{C} -stratifolds $\mathbb{Z}/2$ -homology

The Mayer-Vietoris sequence and homology groups of spheres

Brouwer's fixed point theorem, separation, invariance of dimension

Homology of some important spaces and the Euler characteristic

Integral homology and the mapping degree

A comparison theorem for homology theories and CW-complexes

Kunnet's theorem Some lens spaces and quaternionic generalizations

Cohomology and Poincare duality Induced maps and the cohomology axioms

Products in cohomology and the Kronecker pairing

The signature The Euler class Chern classes and Stiefel-Whitney classes

Pontrjagin classes and applications to bordism Exotic 7-spheres

Relation to ordinary singular (co)homology

Constructions of stratifolds

The detailed proof of the Mayer-Vietoris sequence

The tensor product

Bibliography

Index

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