

References for the Differential Topology of Loop Spaces

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today

This is a small collection of references relating to the differential topology of loop spaces. It is by no means exhaustive nor have I done my utmost to chase down the best reference on a particular topic.

References

- [CJ02] R. Cohen and J. D. S. Jones. A homotopy theoretic realization of string topology. *Math. Ann.*, 324(4):773–798, 2002.
- [CS04] R. L. Cohen and A. Stacey. Fourier decompositions of loop bundles. In P. Goerss and S. Priddy, editors, *Homotopy Theory: Relations with Algebraic Geometry, Group Cohomology, and Algebraic K-Theory*, volume 346 of *Contemp. Math.*, pages 85–95. AMS, 2004.
- [Hus94] D. Husemoller. *Fibre bundles*, volume 20 of *Graduate Texts in Mathematics*. Springer-Verlag, New York, third edition, 1994.
- [Jon87] J. D. S. Jones. Cyclic homology and equivariant homology. *Invent. Math.*, 87:403–423, 1987.
- [KM97] A. Kriegl and P. Michor. *The Convenient Setting of Global Analysis*, volume 53 of *Mathematical Surveys and Monographs*. American Mathematical Society, 1997.
- [LM89] H. B. Lawson and M.-L. Michelsohn. *Spin Geometry*. Princeton University Press, 1989.
- [Mil84] J. W. Milnor. Remarks on infinite dimensional Lie groups. In B. S. de Witt and R. Stora, editors, *Relativity, Groups and Topology*, volume 2, Amsterdam, 1984. Les Houches, North-Holland. Partial.
- [PR94] R. J. Plymen and P. L. Robinson. *Spinors in Hilbert space*, volume 114 of *Cambridge Tracts in Mathematics*. Cambridge University Press, Cambridge, 1994.
- [PS86] A. Pressley and G. Segal. *Loop Groups*. OUP, 1986.
- [Sta] A. Stacey. Finite dimensional subbundles of loop bundles. *to appear in Pacific Journal of Mathematics*.