

参考文献

参考書

[Birman1] J. S. Birman, *Braids, Links, and Mapping Class Groups*, Annals of Mathematics Studies **82**, Princeton University Press, Princeton, NJ, 1975.

[Conlon1] L. Conlon, *Differentiable Manifolds*, Birkhäuser Advanced Texts, Basler Lehrbücher, Birkhäuser, 1993.

[FM1] B. Farb and D. Margalit, *A Primer on Mapping Class Groups*, Princeton Univ. Press, 2011.

[GP1] V. Guillemin and A. Pollack, *Differential Topology*, Prentice Hall, Inc., 1974.

[Hatcher1] A. Hatcher, *Vector Bundles and K-Theory*, Unfinished book available online at <http://www.math.cornell.edu/~hatcher>

[服部 1] 服部晶夫 『位相幾何学 I, II, III』 岩波講座 基礎数学 幾何学 ii, 岩波書店, 1977–79 年. (1991 年に岩波基礎数学選書『位相幾何学』として単行本化された.)

[Hirsch1] M. W. Hirsch, *Differential Topology*, Graduate Texts in Mathematics **33**, Springer-Verlag New York Inc., 1976.

[Hubbard1] J. H. Hubbard, *Teichmüller Theory and Applications to Geometry, Topology, and Dynamics, Volume 1: Teichmüller Theory*, Matrix Editions, Ithaca, NY, 2006.

[加藤 1] 加藤十吉 『トポロジー』 サイエンスライブラリ 理工系の数学=11, サイエンス社, 1978 年.

[川久保 1] 川久保勝夫 『変換群論』 岩波書店, 1987 年.

[Kosinski1] A. A. Kosinski, *Differential Manifolds*, Pure and Applied Mathematics **138**, Academic Press, Inc., 1993.

[MKS1] W. Magnus, A. Karrass, and D. Solitar, *Combinatorial Group Theory: Presentations of Groups in Terms of Generators and Relations*, Pure and Applied Mathematics: A Series of Texts and Monographs, Vol.XIII, Interscience Publishers, A division of John Wiley & Sons, Inc., 1966.

[松本 1] 松本幸夫 『Morse 理論の基礎』 岩波講座 現代数学の基礎 27, 岩波書店, 1997 年. (2005 年に同名の単行本が出版された.)

[松本 2] 松本幸夫 『トポロジー入門』 岩波書店, 1985 年.

[松本 3] 松本幸夫 『多様体の基礎』 基礎数学 5, 東京大学出版会, 1988 年.

[Milnor1] J. Milnor, *Lectures on the h -Cobordism Theorem*, notes by L. Siebenmann and J. Sondow, Princeton University Press, Princeton, NJ, 1965.

[MS1] J. W. Milnor and J. D. Stasheff, *Characteristic Classes*, Annals of Mathematics Studies **76**, Princeton University Press, Princeton, NJ, 1974. (和訳: J. W. ミルナー / J. D. スタシェフ [著], 佐伯修 / 佐久間一浩 [訳] 『特性類講義』シュプリンガー数学クラシックス, シュプリンガー・フェアラーク東京, 2001 年.)

[Stillwell1] J. Stillwell, *Classical Topology and Combinatorial Group Theory*, Graduate Texts in Mathematics **72**, Springer-Verlag New York Inc., 1980.

[田村 1] 田村一郎 『微分位相幾何学 I, II, III』 岩波講座 基礎数学 幾何学 iii, 岩波書店, 1977–78 年. (1992 年に『微分位相幾何学』として単行本化された.)

[田村 2] 田村一郎 『トポロジー』 岩波全書 276, 岩波書店, 1972 年.

[ZVC1] H. Zieschang, E. Vogt and H.-D. Coldewey, *Surfaces and Planar Discontinuous Groups*, Lecture Notes in Mathematics **835**, Springer-Verlag Berlin Heidelberg, 1980.

論文・論説

[Baer1] R. Baer, Isotopien von Kurven auf orientierbaren, geschlossenen Flächen, J. reine angew. Math. **159** (1928), 101–116.

[Birman2] J. S. Birman, Mapping class groups and their relationship to braid groups, Comm. Pure Appl. Math. **22** (1969), 213–238.

[Dehn1] M. Dehn, Die Gruppe der Abbildungsklassen, Acta Math. **69** (1938), 135–206.

[EE1] C. J. Earle and J. Eells, A fiber bundle description of Teichmüller theory, J. Diff. Geom. **3** (1969), 19–43.

[Epstein1] D. B. A. Epstein, Curves on 2-manifolds and isotopies, Acta Math. **115** (1966), 83–107.

[FN1] E. Fadell and L. Neuwirth, Configuration spaces, Math. Scand. **10** (1962), 111–118.

[Gervais1] S. Gervais, A finite presentation of the mapping class group of a punctured surface, Topology **40** (2001), 703–725.

[HR1] L. K. Hua and I. Reiner, On the generators of the symplectic modular group, Trans. Amer. Math. Soc. **65** (1949), 415–426.

[Humphries1] S. P. Humphries, Generators for the mapping class group, in *Topology of low-dimensional manifolds*, Lecture Notes in Math. **722**, Springer-Verlag Berlin Heidelberg, 1979, pp. 44–47.

[Ishida1] A. Ishida, The structure of subgroup of mapping class groups generated by two Dehn twists, *Proc. Japan Acad. Ser. A Math. Sci.* **72** (1996), 240–241.

[Ivanov1] N. V. Ivanov, Mapping Class Groups, in *Handbook of geometric topology*, Edited by R. J. Daverman and R. B. Sher, North-Holland, Amsterdam, 2002, pp. 523–633.

[Johnson1] D. Johnson, Homeomorphisms of a surface which act trivially on homology, *Proc. Amer. Math. Soc.* **75** (1979), 119–125.

[Johnson2] D. Johnson, An abelian quotient of the mapping class group $\mathcal{I}_g$, *Math. Ann.* **249** (1980), 225–242.

[Johnson3] D. Johnson, The structure of the Torelli group II: a characterization of the group generated by twists on bounding curves, *Topology* **24** (1985), 113–126.

[Johnson4] D. Johnson, The structure of the Torelli group III: the abelianization of $\mathcal{I}$, *Topology* **24** (1985), 127–144.

[Lickorish1] W. B. R. Lickorish, A representation of orientable combinatorial 3-manifolds, *Ann. of Math.* **76** (1962), 531–540.

[Lickorish2] W. B. R. Lickorish, A finite set of generators for the homeotopy group of a 2-manifold, *Proc. Cambridge Philos. Soc.* **60** (1964), 769–778 ; Corrigendum, *ibid* **62** (1966), 679–681.

[Matsumoto1] M. Matsumoto, A presentation of mapping class groups in terms of Artin groups and geometric monodromy of singularities, *Math. Ann.* **316** (2000), 401–418.

[Nielsen1] J. Nielsen, Untersuchungen zur Topologie der geschlossen zweiseitigen Flächen I, *Acta Math.* **50** (1927), 189–358.

[Smale1] S. Smale, Diffeomorphisms of the 2-sphere, *Proc. Amer. Math. Soc.* **10** (1959), 621–626.