

Bibliography

- [AA68] V. I. Arnold and A. Avez. *Ergodic problems of classical mechanics*. Translated from the French by A. Avez. W. A. Benjamin, Inc., New York-Amsterdam, 1968.
- [Aar97] Jon Aaronson. *An introduction to infinite ergodic theory*, volume 50 of *Mathematical Surveys and Monographs*. American Mathematical Society, 1997.
- [Arn83] V. I. Arnold. *Geometrical methods in the theory of ordinary differential equations*, volume 250 of *Grundlehren der Mathematischen Wissenschaften [Fundamental Principles of Mathematical Science]*. Springer-Verlag, New York, 1983. Translated from the Russian by Joseph Szücs, Translation edited by Mark Levi.
- [Arn99] V. I. Arnold. *Mathematical methods of classical mechanics*, volume 60 of *Graduate Texts in Mathematics*. Springer-Verlag, New York, 199? Translated from the 1974 Russian original by K. Vogtmann and A. Weinstein, Corrected reprint of the second (1989) edition.
- [Arn92] Vladimir I. Arnold. *Ordinary differential equations*. Springer Textbook. Springer-Verlag, Berlin, 1992. Translated from the third Russian edition by Roger Cooke.
- [Bal00] Viviane Baladi. *Positive transfer operators and decay of correlations*, volume 16 of *Advanced Series in Nonlinear Dynamics*. World Scientific Publishing Co. Inc., River Edge, NJ, 2000.
- [Bir57] Garrett Birkhoff. Extensions of Jentzschr's theorem. *Trans. Amer. Math. Soc.*, 85:219–227, 1957.
- [Bir79] Garrett Birkhoff. *Lattice theory*, volume 25 of *American Mathematical Society Colloquium Publications*. American Mathematical Society, Providence, R.I., third edition, 1979.
- [BT07] Viviane Baladi and Masato Tsujii. Anisotropic Hölder and Sobolev spaces for hyperbolic diffeomorphisms. *Ann. Inst. Fourier (Grenoble)*, 57(1):127–154, 2007.
- [BY93] Viviane Baladi and Lai-Sang Young. On the spectra of randomly perturbed expanding maps. *Comm. Math. Phys.*, 156:355–385, 1993.
- [CC95] Alessandra Celletti and Luigi Chierchia. A constructive theory of Lagrangian tori and computer-assisted applications. In *Dynamics reported*, volume 4 of *Dynam. Report. Expositions Dynam. Systems (N.S.)*, pages 60–129. Springer, Berlin, 1995.
- [CH82] Shui Nee Chow and Jack K. Hale. *Methods of bifurcation theory*, volume 251 of *Grundlehren der Mathematischen Wissenschaften [Fundamental Principles of Mathematical Science]*. Springer-Verlag, New York, 1982.
- [CL55] Earl A. Coddington and Norman Levinson. *Theory of ordinary differential equations*. McGraw-Hill Book Company, Inc., New York-Toronto-London, 1955.
- [DS88] Nelson Dunford and Jacob T. Schwartz. *Linear operators. Part I*. Wiley Classics Library. John Wiley & Sons Inc., New York, 1988. General theory, With the assistance of William G. Bade and Robert G. Bartle, Reprint of the 1958 original, A Wiley-Interscience Publication.

- [DZ98] Amir Dembo and Ofer Zeitouni. *Large deviations techniques and applications*, volume 38 of *Applications of Mathematics (New York)*. Springer-Verlag, New York, second edition, 1998.
- [Euc78] Euclide. *Les éléments. I, II*. Éditions du Centre National de la Recherche Scientifique (CNRS), Paris, french edition, 1978. Translated from the Greek by Georges J. Kayas.
- [Gal83] Giovanni Gallavotti. *The elements of mechanics*. Texts and Monographs in Physics. Springer-Verlag, New York, 1983. Translated from the Italian.
- [GL06] Sébastien Gouëzel and Carlangelo Liverani. Banach spaces adapted to Anosov systems. *Ergodic Theory Dynam. Systems*, 26:189–217, 2006.
- [Her83] Michael-R. Herman. *Sur les courbes invariantes par les difféomorphismes de l’anneau. Vol. 1*, volume 103 of *Astérisque*. Société Mathématique de France, Paris, 1983. With an appendix by Albert Fathi, With an English summary.
- [Her86] Michael-R. Herman. Sur les courbes invariantes par les difféomorphismes de l’anneau. Vol. 2. *Astérisque*, (144):248, 1986. With a correction to: *On the curves invariant under diffeomorphisms of the annulus, Vol. 1 (French) [Astérisque No. 103-104, Soc. Math. France, Paris, 1983; MR0728564 (85m:58062)]*.
- [HK95] Boris Hasselblatt and Anatole Katok. *Introduction to the modern theory of dynamical systems*. Cambridge university press, 1995.
- [Hop39] Eberhard Hopf. Statistik der geodätischen Linien in Mannigfaltigkeiten negativer Krümmung. *Ber. Verh. Sächs. Akad. Wiss. Leipzig*, 91:261–304, 1939.
- [Hop40] Eberhard Hopf. Statistik der Lösungen geodätischer Probleme vom unstabilen Typus. II. *Math. Ann.*, 117:590–608, 1940.
- [HS74] Morris W. Hirsch and Stephen Smale. *Differential equations, dynamical systems, and linear algebra*. Academic Press [A subsidiary of Harcourt Brace Jovanovich, Publishers], New York-London, 1974. Pure and Applied Mathematics, Vol. 60.
- [IK00] Alexander V. Isaev and Steven G. Krantz. Invariant distances and metrics in complex analysis. *Notices Amer. Math. Soc.*, 47(5):546–553, 2000.
- [Kat66] Tosio Kato. *Perturbation theory for linear operators*. Die Grundlehren der mathematischen Wissenschaften, Band 132. Springer-Verlag New York, Inc., New York, 1966.
- [Kel82] Gerhard Keller. Stochastic stability in some chaotic dynamical systems. *Monatsh. Math.*, 94(4):313–333, 1982.
- [Kif88] Yuri Kifer. *Random perturbations of dynamical systems*, volume 16 of *Progress in Probability and Statistics*. Birkhäuser Boston Inc., Boston, MA, 1988.
- [KL99] Gerhard Keller and Carlangelo Liverani. Stability of the spectrum for transfer operators. *Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4)*, 28(1):141–152, 1999.
- [Liv95] Carlangelo Liverani. Decay of correlations. *Ann. of Math. (2)*, 142(2):239–301, 1995.
- [LL76] L. D. Landau and E. M. Lifshitz. *Course of theoretical physics. Vol. 1*. Pergamon Press, Oxford, third edition, 1976. Mechanics, Translated from the Russian by J. B. Skyes and J. S. Bell.
- [LL01] Elliott H. Lieb and Michael Loss. *Analysis*, volume 14 of *Graduate Studies in Mathematics*. American Mathematical Society, Providence, RI, second edition, 2001.

- [LMD03] Carlangelo Liverani and Véronique Maume-Deschamps. Lasota-Yorke maps with holes: conditionally invariant probability measures and invariant probability measures on the survivor set. *Ann. Inst. H. Poincaré Probab. Statist.*, 39(3):385–412, 2003.
- [Mos01] Jürgen Moser. *Stable and random motions in dynamical systems*. Princeton Landmarks in Mathematics. Princeton University Press, Princeton, NJ, 2001. With special emphasis on celestial mechanics, Reprint of the 1973 original, With a foreword by Philip J. Holmes.
- [Nus88] Roger D. Nussbaum. Hilbert’s projective metric and iterated nonlinear maps. *Mem. Amer. Math. Soc.*, 75(391):iv+137, 1988.
- [NZ99] Igor Nikolaev and Evgeny Zhuzhoma. *Flows on 2-dimensional manifolds*, volume 1705 of *Lecture Notes in Mathematics*. Springer-Verlag, Berlin, 1999. An overview.
- [Poi87] Henri Poincaré. *Le Méthodes Nouvelles de la Mécanique Céleste, Tome I,II, III*. le grand clasiques Gauthier-Villards. Blanchard, Paris, 1987.
- [PT93] Jacob Palis and Floris Takens. *Hyperbolicity and sensitive chaotic dynamics at homoclinic bifurcations*, volume 35 of *Cambridge Studies in Advanced Mathematics*. Cambridge University Press, Cambridge, 1993. Fractal dimensions and infinitely many attractors.
- [Roh67] V. A. Rohlin. Lectures on the entropy theory of transformations with invariant measure. *Uspehi Mat. Nauk*, 22(5 (137)):3–56, 1967.
- [Roy88] H. L. Royden. *Real analysis*. Macmillan Publishing Company, New York, third edition, 1988.
- [RS80] Michael Reed and Barry Simon. *Methods of modern mathematical physics. I*. Academic Press Inc. [Harcourt Brace Jovanovich Publishers], New York, second edition, 1980. Functional analysis.
- [Sie45] Carl Ludwig Siegel. Note on the differential equations on the torus. *Ann. of Math. (2)*, 46:423–428, 1945.
- [Str84] D. W. Stroock. *An introduction to the theory of large deviations*. Universitext. Springer-Verlag, New York, 1984.
- [UvN47] S. M. Ulam and John von Neumann. On combination of stochastic and deterministic processes. (preliminary report at the summer meeting in new haven). *Bull. Amer. Math. Soc.*, 53, 11:1120–1120, 1947.
- [Var84] S. R. S. Varadhan. *Large deviations and applications*, volume 46 of *CBMS-NSF Regional Conference Series in Applied Mathematics*. Society for Industrial and Applied Mathematics (SIAM), Philadelphia, PA, 1984.
- [Yos95] Kōsaku Yosida. *Functional analysis*. Classics in Mathematics. Springer-Verlag, Berlin, 1995. Reprint of the sixth (1980) edition.
- [Zei86] Eberhard Zeidler. *Nonlinear functional analysis and its applications. I*. Springer-Verlag, New York, 1986. Fixed-point theorems, Translated from the German by Peter R. Wadsack.