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Measure Theory and Dynamics

Literature for additional reading

There are many books on measure theory. Two of them are

L. C. Evans, R. F. Gariepy, *Measure Theory and Fine Properties of Functions*, CRC Press, 1992

D. L. Cohn, *Measure theory*, Birkhäuser, 1980

Unfortunately, most books about ergodic theory are very advanced. A good classical source of ergodic theory is

P. R. Halmos, *Lectures on Ergodic Theory*, Chelsea, 1956

Other, more modern books are

P. Walters, *An Introduction to Ergodic Theory*, Springer, 1982

T. Bedford, M. Keane, C. Series, *Ergodic Theory, Symbolic Dynamics and Hyperbolic Spaces*, Oxford University Press, 1991

M. Brin, G. Stuck, *Introduction to Dynamical Systems*, Cambridge University Press, 2002

B. Hasselblatt, A. Katok, *A First Course in Dynamics*, Cambridge University Press, 2003

An encyclodedic book about ergodic theory and dynamical systems is

A. Katok, B. Hasselblatt, *Introduction to the modern theory of dynamical systems*, Cambridge University Press, 1995