

Reinhard Höpfner

Literaturverzeichnis zur Vorlesung

'Stochastische Differentialgleichungen' WS 2017/18

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Zu den zentralen Themen der Vorlesung:

Bass, R.: Diffusions and elliptic operators. Springer 1998.

Ikeda, N., Watanabe, S.: Stochastic differential equations and diffusion processes.
2nd Ed. North-Holland Kodansha 1989.

Karatzas, Y., Shreve, S.: Brownian motion and stochastic calculus. 2nd Ed. Springer 1991.

Strook, D., Varadhan, S.: Multidimensional stochastic differential equations. Springer 1979.

Probabilistischer Background

Bremaud, P.: Point processes and queues. Springer 1981.

Jacod, J., Shiryaev, A.: Limit theorems for stochastic processes. 2nd Ed. Springer 2003.

Métivier, M.: Semimartingales. deGruyter 1982.

Protter, P.: Stochastic integration and differential equations. 2nd Ed. Springer 2005.

Revuz, D., Yor, M.: Continuous martingales and Brownian motion. 3rd Ed. Springer 1999.

Schilling, R., Partzsch, L.: Brownian motion. 2nd Ed. deGruyter 2014.

Speziellere Aspekte

Cattiaux, P.: Calcul stochastique et operateurs degeneres du second ordre I.
Bull. Sci. Math. 2nd Serie **114**, 421–462 (1990).

Gihman, J., Skorohod, A.: Stochastic differential equations. Springer 1972.

Ito, K, McKean, H.: Diffusion processes and their sample paths. 2nd printing Springer 1974

Khasminskii, R.: Stochastic stability of differential equations. 2nd Ed. Springer 2003.

Kloeden, P., Platen, E.: Numerical solution of stochastic differential equations. Springer 1992.

Kunita, H.: Stochastic flows and stochastic differential equations. Cambridge 1990.

Cherny, A., Engelbert, H.: Singular stochastic differential equations. LNMath 1858. Springer 2005.

Referenzen zur Analysis

Hille, E.: Lectures on ordinary differential equations. Addison-Wesley 1969.

Lieb, E., Loss, M.: Analysis. 2nd Ed. AMS 2001.