

Literatur zur Vorlesung

Stochastische Finanzmarktanalyse (Stochastic Finance)

Stochastische Analysis

Hackenbroch, W., Thalmaier, A. (1994): Stochastische Analysis. Teubner.

Jacod, D., Shiryaev, A.N. (1987): Limit Theorems for Stochastic Processes. Springer (Second Edition 2003)

Karatzas, I., Shreve, S.E. (1988): Brownian Motion and Stochastic Calculus. Springer. (Second Ed. 1991, Corrected Sixth Printing 2000)

Lipster, R.S., Shiryaev, A.N. (1977): Statistics of Random Processes I. Springer (Second Ed. 2001).

Øxendal, B. (1985): Stochastic Differential Equations. Springer. (Fifth Edition 1998, Corrected Second Printing 2000)

Math. Finance (allgemeine Modelle)

Bingham, N.H., Kiesel, R. (1998): Risk-Neutral Valuation. Springer.

Björk, T. (1998): Arbitrage Theory in Continuous Time. Oxford University Press.

Dana, R.-A., Jeanblanc, M. (2003): Financial Markets in Continuous Time. Springer.

Delbaen, F. Schachermayer, W. (2006): The Mathematics of Arbitrage. Springer

Elliot, R.J., Kopp, E. (1998): Mathematics of Financial Markets. Springer.

Haug, E.G. (1998): The Complete Guide to Option Pricing Formulas. Mc Graw Hill.

Hausmann, W., Diener, K., Käsler, J. (2002): Derivate, Arbitrage und Portfolio-Selektion. Vieweg.

Irle, A. (1998): Finanzmathematik. Teubner. (2. Aufl. 2003)

Kallianpur, G., Karandikar, R.L. (2000): Introduction to Option Pricing Theory. Birkhäuser.

Karatzas, I., Shreve, S.E. (1998): Methods of Mathematical Finance. Springer.

Korn, R., Korn, E. (1999): Optionsbewertung und Portfoliooptimierung. Vieweg. (2. Aufl. 2001).

Kwok, Y.-K. (1998): Mathematical Models of Financial Derivatives. Springer.

Lamberton, D., Lapeyre, B. (1996): Stochastic Calculus Applied to Finance. Chapman & Hall.

Musiela, M., Rutkowski, M. (1997): Martingale Methods in Financial Modelling. Springer.

Nielsen, L.T. (1999): Pricing and Hedging of Derivative Securities. Oxford University Press.

Shiryayev, A.N. (1999): Essentials of Stochastic Finance. Facts, Models, Theory. World Scientific.

Shreve, S.E. (2004): Stochastic Calculus for Finance, Vol. II. Springer.

Zhang, P.G. (1998): Exotic Options, 2nd Edition. World Scientific.

Spezielle Themen: Währungsmärkte

Björk, T. (1998): Arbitrage Theory in Continuous Time. Oxford University Press.

Hakala, J., Wystup, U. (Hrg. 2002): Foreign Exchange Risk: Models, Instruments and Strategies. Risk Books.

Musiela, M., Rutkowski, M. (1997): Martingale Methods in Financial Modelling. Springer.

Shreve, S.E. (2004): Stochastic Calculus for Finance, Vol. II. Springer.

Zhang, P.G. (1998): Exotic Options, 2nd Edition. World Scientific.

Finanzmarktmodelle mit stochastischer Volatilität

Buff, R. (2002): Uncertain Volatility Models - Theory and Applications. Springer.

Fouque, J.-P., Papanicolaou, G., Sircar, K.R. (2000): Derivatives in Financial Markets with Stochastic Volatility. Cambridge University Press.

Lewis, A.L. (2000): Option Valuation under Stochastic Volatility. Finance Press.
CA.

Zinsstrukturmodelle

Björk, T. (1998): Arbitrage Theory in Continuous Time. Oxford University Press.

Brigo, D., Mercurio, F. (2001): Interest Rate Models. Springer.

Lamberton, D., Lapeyre, B. (1996): Stochastic Calculus Applied to Finance. Chapman & Hall.

Mayer, S.R. (1999): Bewertung Exotischer Zinsderivate. Institut für Finanz- und Aktuarwissenschaften, Ulm.

Musiela, M., Rutkowski, M. (1997): Martingale Methods in Financial Modelling. Springer.

Pelsser, A. (2000): Efficient Methods for Valuing Interest Rate Derivatives. Springer.

Reitz, S., Schwarz, W., Martin, M.R.W. (2004): Zinsderivate. Vieweg.

Sandmann, K. (1999): Einführung in die Stochastik der Finanzmärkte. Springer.

Shreve, S.E. (2004): Stochastic Calculus for Finance, Vol. II. Springer.

Zagst, R. (2002): Interest Rate Management. Springer.

Numerische Methoden

Glasserman, P. (2004): Monte Carlo Methods in Financial Engeneering. Springer.

Günther, M., Jüngel, A. (2003): Finanzderivate mit MATLAB. Vieweg.

Rogers, L.C.G., Talay, D. (Hrg., 1997): Numerical Methods in Finance. Cambridge University Press. (Reprinted 1999).

Seydel, R. (2002): Tools for Computational Finance. Springer (Second Ed. 2004).

Pagès, G. (2008): Introduction to Numerical Probability for Finance. Univ. Paris 6.