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Affine Diffusions and Related Processes: Simulation, Theory and Applications

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Affine Diffusions And Related Processes Simulation Theory And Applications Bocconi Springer Series

Andrzej Pekalski



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Numerical Probability Gilles Pagès, 2018-07-31 This textbook provides a self contained introduction to numerical methods in probability with a focus on applications to finance Topics covered include the Monte Carlo simulation including simulation of random variables variance reduction quasi Monte Carlo simulation and more recent developments such as the multilevel paradigm stochastic optimization and approximation discretization schemes of stochastic differential equations as well as optimal quantization methods The author further presents detailed applications to numerical aspects of pricing and hedging of financial derivatives risk measures such as value at risk and conditional value at risk implicitation of parameters and calibration Aimed at graduate students and advanced undergraduate students this book contains useful examples and over 150 exercises making it suitable for self study

Affine Diffusion Processes Damir Filipović, 2009 We revisit affine diffusion processes on general and on the canonical state space in particular A detailed study of theoretic and applied aspects of this class of Markov processes is given In particular we derive admissibility conditions and provide a full proof of existence and uniqueness through stochastic invariance of the canonical state space Existence of exponential moments and the full range of validity of the affine transform formula are established This is applied to the pricing of bond and stock options which is illustrated for the Vasicek Cox Ingersoll Ross and Heston Models

Diffusion Processes and Their Sample Paths K. Ito, Henry P. McKean, 1965

Multidimensional Diffusion Processes Daniel W. Stroock, 2006

Diffusion Processes Andrzej Pekalski, 2014-01-15

Workshop on Agent-Based Simulation of Diffusion Processes International Workshop on Agent-Based Simulation of Diffusion Processes (2010, Wien), Bernd Brandl, 2010

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