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Page 7/11

#### SDE Toolbox: Stochastic Differential Equations with MATLAB

sdeint is a collection of numerical algorithms for integrating Ito and Stratonovich stochastic ordinary differential equations (SODEs). It has simple functions that can be used in a similar way to scipy.integrate.odeint() or MATLAB's ode45.

#### sdeint · PyPI

explicit scheme for the numerical solution of the autonomous multidimen-sional SDE with additive noise dx(t)=f(x) dt+dW(t),  $x(t \ 0)=x \ 0$ , and W a Wiener process in the form of a multivariate autoregressive time series with state-depen-dent coefficients (it does not involve a stochastic Taylor expansion of the solution of the SDE).

Simulation of Stochastic Differential Equations Through Page 8/11

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#### Numerical solution of SDE through computer experiments

A stochastic differential equation (SDE) is a differential equation in which one or more of the terms is a stochastic process, resulting in a solution which is also a stochastic process. SDEs are used to model various phenomena such as unstable stock prices or physical systems subject to thermal fluctuations. Typically, SDEs contain a variable which represents random white noise calculated as ...

#### Stochastic differential equation - Wikipedia

The numerical analysis of stochastic differential equations (SDEs)

differs significantly from that of ordinary differential equations. This book provides an easily accessible introduction to SDEs, their applications and the numerical methods to solve such equations.

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